



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
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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: _____



1133597

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. 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
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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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shell Gulf of Mexico Inc.
Well Name	Randolph Trust 2107 31-1H
Doc ID	1133597

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
3	3837 - 4070'	92946 gals fluid & 178641# proppant	
3	4222 - 4530'	82278 gals fluid & 150084# proppant	
3	4653 - 4968'	84504 gals fluid & 174767# proppant	
3	5044 - 5270'	94752 gals fluid & 171080# proppant	
3	5346 - 5574'	84084 gals fluid & 173370# proppant	
3	5637 - 5876'	86730 gals fluid & 176534# proppant	
3	5950 - 6174'	99750 gals fluid & 175999# proppant	
3	6252 - 6480'	100800 gals fluid & 176248# proppant	
3	6554 - 6780'	118818 gals fluid & 180264# proppant	

Form	ACO1 - Well Completion
Operator	Shell Gulf of Mexico Inc.
Well Name	Randolph Trust 2107 31-1H
Doc ID	1133597

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	24	18	45	62	Portland Neat	22	
Surface	12.25	9.625	36	533	Class C	375	See attached
Intermediate	8.75	7	26	3813	Class C	310	See attached
Liner	6.125	4.5	11.6	6898	Class H	265	See attached

SHELL GULF OF MEXICO, INC. (34574)	Randolph Trust 2107-31	
BOART LONGYEAR COMPANY (32978) (SET THE CONDUCTOR)	1-H conductor	1-H mouse hole
Call in DATE OF SPUD	1/23/2013	
spud in date	1/21/2013	1/24/2013
T.D date	1/22/2013	1/25/2013
Size Hole Drilled	24"	18"
Size Casing Set (in O.D)	18"	14"
conductor wall thickness	.236	.219
Weight Lbs./Ft.	45lbs	32.26lbs
Setting Depth	62ft	76ft
Type of Cement	portland neat	portland neat
Cubic yards of cement	3.7yds	4yds
2500 PSI Grout Mix	yes	yes
Type and Percent of Additives	0%	0%
Comments	0-to 6ft fill type material 6ft-to-63ft course brown sand and small gravel 63 ft to 75.4 ft sandstone type / fractured and red water zone at 13ft to 63ft static level 13ft plug depth at 58 ft	0-to 6ft fill type material 6ft-to-63ft course brown sand and small gravel 63 ft to 75.4 ft sandstone type / fractured and red water zone at 13ft to 63ft static level 13ft plug depth at 76 ft

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 06-FEB-13	F.R. # 1001963618	SERV. SUPV. James Kirkpatrick
LEASE & WELL NAME RANDOLPH TRUST 2107 #31-1H - API 15159227230	LOCATION 31-21S-7W		COUNTY-PARISH-BLOCK Rice Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG # Patterson 264		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	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
Class C, 0.01% static free, 2% cacl2, 0.25pps Celoflake		375	14.8	1.35	6.34	02:45	90	56.64
H2O			8.34				36	
H2O			8.34				20	

Available Mix Water 150 Bbl. Available Displ. Fluid 300 Bbl. **TOTAL** 146 56.64

HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
12.25		540	8.921	9.625	36	CSG	533	506	J-55	533	465	

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.		60	60						9.625	8RD	WATER BASED MU	8.9

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	
36	BBLs	H2O	8.34	250					2816	830	RIG

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 2500 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
04:15	2500				H2O	TEST PUMP AND LINES, START H2O AHEAD	
04:25	130		4	20	H2O	PUMP H2O AHEAD, START CEMENT @ 14.8#	
04:40	200		4	80	CEMENT	80 BBL INTO CEMENT, CEMENT RETURNS TO SURFACE, CONTINUE DISPLACEMENT	
04:45	190		4	90	CEMENT	PUMP CEMENT, SHUT DOWN, START DISPLACEMENT	
05:00	200		2.5	36	H2O	PUMP DISPLACEMENT, BUMP PLUG, TEST FLOAT, HOLDING	
						TOOK PRESSURE UP TO 800 PSI AT BUMP	
						46 BBL CEMENT RETURNS TO SURFACE	
						CEMENT : 375 SACKS CLASS C + 0.01% STATIC FREE + 2% CaCl2 + 0.25 PPS CELLO FLAKE	
						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	SERVICE SUPERVISOR SIGNATURE:
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	200	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	46	146	0	Y <input type="checkbox"/> N	

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 17-FEB-13	F.R. # 1001965992	SERV. SUPV. Chad Mathis
LEASE & WELL NAME RANDOLPH TRUST 2107 #31-1H - API 15159227230	LOCATION 31-21S-7W		COUNTY-PARISH-BLOCK Rice Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG # Patterson 264		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	Shoe 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
Sealbond Spacer 25 (w/45lb bag)			8.45				40	
C15:85:8 + 0.01% Static Free+ 10% Salt + 0.25lb/sc		225	12.4	2.45	13.52	05:30	98.16	72.42
C50:50:2+0.01 Static Free+ 5%Salt + 0.25Lb/sck Cel		85	14.2	1.32	5.66	03:45	19.94	11.43
Displacement			8.34				144.4	
Available Mix Water _____ Bbl.		Available Displ. Fluid _____ Bbl.		TOTAL			302.5	83.85

HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
8.75		3818	6.276	7	26	CSG	3813	3486		3813	3774.85	

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		500	500			4600	4600	7	8 RD	WATER BASED MU	9.5

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	Rig Tank
144.4	BBLS	Displacement	8.34	800					9960	7960	Rig Tank

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:

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"/>	
19:00						ARRIVE ON LOCATION	
03:45						PRE-JOB SAFETY MEETING	
04:30				40	SEALBOND	RIG PUMPED SEALBOND SPACER	
05:07	4000					TEST LINES TO 4000 PSI	
05:10						START LEAD SLURRY	
05:35	280		4.5	98.17	LEAD CMT	FINISH LEAD, START TAIL SLURRY	
05:46	50		4	19.98	TAIL CMT	FINISH TAIL SLURRY, SHUT DOWN	
05:52						DROP PLUG, START DISPLACEMENT	
06:04	300		5	50	WATER	CAUGHT CEMENT, SLOW RATE TO 4 BPM	
06:22	750		4	120	WATER	SLOW RATE TO BUMP PLUG	
06:27	800		2.5	140	WATER	4 BBLS OF CEMENT BACK TO SURFACE	
06:30	850		2.5	144	WATER	BUMP PLUG, PRESSURED UP TO 1500 PSI HELD FOR 10 MIN	
06:40	1500					RELEASED PRESSURE GOT .5 BBLS BACK TO PUMP TRUCK	
						225 SACKS LEAD: (15:85) POZ (CLASS C) + 8% GEL + 4PPS KOLSEAL + 10% SALT + 0.01% STATIC FREE + 0.6% SMS+ 1/4 PPS CELLOFLAKE + 0.006 GPS FP-6L	
						85 SACKS TAIL: 50/50 POZ (CLASS C) + 2% GEL + 4 PPS KOLSEAL + 0.3 % FL-52 + .15% SMS + 5% SALT + 0.01% STATIC FREE + 1/4 PPS CELLOFLAKE + 0.006 GPS FP-6L	
						TOC TAIL: 3119.76'	

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	<u>SERVICE SUPERVISOR SIGNATURE:</u>
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	1500	Y <input checked="" type="checkbox"/> N	4	302.55	0	Y <input checked="" type="checkbox"/> N	

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC		DATE 28-FEB-13	F.R. # 1001967485		SERV. SUPV. Justin D Stamper									
LEASE & WELL NAME RANDOLPH TRUST 2107 #31-1H - API 15159227230			LOCATION 31-21S-7W		COUNTY-PARISH-BLOCK Rice Kansas									
DISTRICT McAlester		DRILLING CONTRACTOR RIG # Patterson 264			TYPE OF JOB Liner									
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		MECHANICAL BARRIERS		MD TVD HANGER TYPES MD TVD								
		Shoe 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						
SealBond Spacer				8.45			40							
50/50(poz/h)+3%salt+.5%f162+.6%sms+.5%f152			125102899	265	14.3	1.24	5.54 04:55 57 33.92							
Displacement				8.34			97							
Available Mix Water <u>1000</u> Bbl.		Available Displ. Fluid <u>1000</u> Bbl.		TOTAL		<u>194</u> <u>33.92</u>								
HOLE			TBG-CSG-D.P.				COLLAR DEPTHS							
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE		
6.125		6900	4	4.5	11.6	CSG	3642		P-110	3642	3599			
			3.244	4	15.3	DP	3256		D					
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.
6.3	7	26		3804	3804						2	1502	WATER BASED MU	8.6
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			
97	BBLS	Displacement		8.34	1100					8946	4500	RIG		
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: ARRIVE ON LOCATION, RIG UP, WAIT ON RIG														
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 7000 PSI								
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>								
05:00						ARRIVE ON LOCATION								
15:52	30		4	40	SEAL BIND	RIG TO PUMP SEAL BOND								
15:55						SAFETY MEETING								
16:08	7000				WATER	TEST LINES, START CMT								
16:25	1000		5	57	SLURRY	FINISH SLURRY, WASH PUMP AND LINES, START DISPLACMENT								
16:39	500		5	12	WATER	CAUGHT CMT								
16:40	300		4	3	WATER	SLOW TO PICK UP PLUG								
16:43	300		3	7	WATER	SHEER PLUG AT 930, PICK RATE UP								
16:51	5.6		5	46	WATER	SLOW TO BUMP PLUG								
16:54	690		3	8	WATER	BUMP PLUG PRESSURE UP TO 1400								
17:04						BLEED OFF RECIVED .5 BBL BACK TO TRUCK								
17:40					WATER	PUMP WATER TO TRIP TANK								
17:48		4446		1.5	WATER	PRESSURE UP BACK SIDE								
17:58						BLEED OFF RECIVED 2 BBLs BACK TO TRIP TANK								
						THANK YOU FOR USING BHI								
						JUSTIN STAMPER 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	SERVICE SUPERVISOR SIGNATURE:							
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	1400	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	0	137	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N								



Shell

Rice County, Kansas (NAD27)
Randolph Trust 2107
31-1H

Wellbore #1

Survey: Extreme MWD

Standard Survey Report

25 February, 2013



Company:	Shell	Local Co-ordinate Reference:	Well 31-1H
Project:	Rice County, Kansas (NAD27)	TVD Reference:	WELL @ 1633.90usft (Patterson 264)
Site:	Randolph Trust 2107	MD Reference:	WELL @ 1633.90usft (Patterson 264)
Well:	31-1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Well Planning Conroe

Project	Rice County, Kansas (NAD27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Kansas South 1502		

Well	31-1H				
Well Position	+N/-S	0.00 usft	Northing:	553,817.24 usft	Latitude: 38° 11' 13.4039 N
	+E/-W	0.00 usft	Easting:	2,107,650.83 usft	Longitude: 98° 7' 31.656 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level: 1,611.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM_2010	02/01/13	4.57	66.11	52,367

Design	Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.97	

Survey Program	Date	02/25/13			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
146.00	7,416.00	Extreme MWD (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
146.00	0.40	5.00	146.00	0.51	0.04	-0.51	0.27	0.27	0.00	0.00
208.00	1.00	288.60	207.99	0.90	-0.45	-0.90	1.59	0.97	-123.23	-123.23
300.00	2.20	277.30	299.96	1.38	-2.96	-1.38	1.34	1.30	-12.28	-12.28
392.00	3.40	272.30	391.85	1.71	-7.44	-1.71	1.33	1.30	-5.43	-5.43
484.00	4.30	271.40	483.64	1.90	-13.61	-1.91	0.98	0.98	-0.98	-0.98
610.00	4.20	274.00	609.29	2.34	-22.94	-2.35	0.17	-0.08	2.06	2.06
704.00	1.60	237.10	703.17	1.87	-27.48	-1.88	3.27	-2.77	-39.26	-39.26
797.00	2.30	170.90	796.13	-0.68	-28.27	0.66	2.38	0.75	-71.18	-71.18
891.00	1.10	154.90	890.08	-3.36	-27.59	3.34	1.36	-1.28	-17.02	-17.02
983.00	0.70	180.60	982.07	-4.72	-27.22	4.71	0.61	-0.43	27.93	27.93
1,075.00	0.40	185.80	1,074.07	-5.60	-27.26	5.59	0.33	-0.33	5.65	5.65
1,168.00	0.30	205.50	1,167.07	-6.15	-27.40	6.13	0.17	-0.11	21.18	21.18
1,260.00	0.20	174.80	1,259.06	-6.52	-27.49	6.51	0.18	-0.11	-33.37	-33.37
1,352.00	0.30	189.10	1,351.06	-6.92	-27.51	6.91	0.13	0.11	15.54	15.54



Company:	Shell	Local Co-ordinate Reference:	Well 31-1H
Project:	Rice County, Kansas (NAD27)	TVD Reference:	WELL @ 1633.90usft (Patterson 264)
Site:	Randolph Trust 2107	MD Reference:	WELL @ 1633.90usft (Patterson 264)
Well:	31-1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Well Planning Conroe

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,444.00	0.20	200.00	1,443.06	-7.31	-27.60	7.29	0.12	-0.11	11.85	
1,536.00	0.20	238.50	1,535.06	-7.54	-27.79	7.53	0.14	0.00	41.85	
1,659.00	0.40	354.80	1,658.06	-7.23	-28.02	7.21	0.42	0.16	94.55	
1,751.00	0.40	27.90	1,750.06	-6.62	-27.89	6.61	0.25	0.00	35.98	
1,843.00	0.50	46.00	1,842.06	-6.06	-27.46	6.05	0.19	0.11	19.67	
1,937.00	0.50	31.20	1,936.05	-5.43	-26.95	5.41	0.14	0.00	-15.74	
2,031.00	0.80	24.30	2,030.05	-4.48	-26.47	4.46	0.33	0.32	-7.34	
2,125.00	0.80	11.20	2,124.04	-3.24	-26.07	3.22	0.19	0.00	-13.94	
2,219.00	0.80	0.40	2,218.03	-1.94	-25.94	1.92	0.16	0.00	-11.49	
2,312.00	0.70	353.20	2,311.02	-0.72	-26.00	0.71	0.15	-0.11	-7.74	
2,406.00	0.70	345.50	2,405.01	0.40	-26.21	-0.42	0.10	0.00	-8.19	
2,500.00	0.50	345.40	2,499.01	1.36	-26.46	-1.37	0.21	-0.21	-0.11	
2,594.00	0.60	328.00	2,593.00	2.17	-26.82	-2.18	0.21	0.11	-18.51	
2,688.00	0.60	323.80	2,687.00	2.99	-27.37	-3.00	0.05	0.00	-4.47	
2,782.00	0.50	311.70	2,780.99	3.66	-27.97	-3.67	0.16	-0.11	-12.87	
2,875.00	0.60	300.80	2,873.99	4.17	-28.69	-4.19	0.16	0.11	-11.72	
2,938.00	0.40	273.50	2,936.99	4.36	-29.19	-4.37	0.49	-0.32	-43.33	
2,969.00	2.20	209.70	2,967.98	3.85	-29.60	-3.86	6.63	5.81	-205.81	
3,000.00	3.80	192.70	2,998.94	2.33	-30.12	-2.34	5.85	5.16	-54.84	
3,032.00	6.60	179.30	3,030.80	-0.55	-30.33	0.53	9.48	8.75	-41.88	
3,063.00	10.30	178.10	3,061.46	-5.10	-30.22	5.08	11.95	11.94	-3.87	
3,094.00	13.80	178.90	3,091.77	-11.57	-30.05	11.55	11.30	11.29	2.58	
3,125.00	17.30	177.80	3,121.63	-19.87	-29.80	19.86	11.33	11.29	-3.55	
3,157.00	20.50	178.30	3,151.90	-30.23	-29.46	30.22	10.01	10.00	1.56	
3,188.00	24.40	176.00	3,180.55	-42.05	-28.85	42.03	12.89	12.58	-7.42	
3,219.00	28.50	174.90	3,208.30	-55.81	-27.74	55.79	13.32	13.23	-3.55	
3,250.00	32.10	175.60	3,235.06	-71.39	-26.45	71.38	11.67	11.61	2.26	
3,282.00	35.10	177.80	3,261.71	-89.07	-25.45	89.06	10.12	9.38	6.88	
3,313.00	38.30	180.00	3,286.56	-107.59	-25.11	107.57	11.16	10.32	7.10	
3,344.00	41.50	181.40	3,310.34	-127.47	-25.36	127.45	10.72	10.32	4.52	
3,376.00	45.10	182.10	3,333.63	-149.40	-26.03	149.38	11.35	11.25	2.19	
3,407.00	48.00	181.00	3,354.95	-171.89	-26.63	171.88	9.70	9.35	-3.55	
3,438.00	50.80	180.00	3,375.12	-195.43	-26.84	195.41	9.36	9.03	-3.23	
3,469.00	55.00	179.90	3,393.81	-220.15	-26.81	220.13	13.55	13.55	-0.32	
3,501.00	58.90	180.10	3,411.26	-246.96	-26.81	246.95	12.20	12.19	0.63	
3,532.00	62.30	180.30	3,426.48	-273.97	-26.91	273.95	10.98	10.97	0.65	
3,563.00	65.20	181.00	3,440.19	-301.76	-27.23	301.75	9.57	9.35	2.26	
3,594.00	68.00	181.70	3,452.50	-330.20	-27.90	330.19	9.27	9.03	2.26	
3,625.00	71.00	181.80	3,463.35	-359.22	-28.79	359.21	9.68	9.68	0.32	
3,656.00	75.10	181.90	3,472.39	-388.86	-29.74	388.84	13.23	13.23	0.32	
3,688.00	79.00	181.80	3,479.56	-420.02	-30.75	420.00	12.19	12.19	-0.31	
3,719.00	83.00	181.00	3,484.41	-450.62	-31.50	450.61	13.15	12.90	-2.58	
3,750.00	85.30	180.70	3,487.57	-481.46	-31.95	481.44	7.48	7.42	-0.97	
3,880.00	88.50	180.70	3,494.60	-611.24	-33.54	611.22	2.46	2.46	0.00	



Company:	Shell	Local Co-ordinate Reference:	Well 31-1H
Project:	Rice County, Kansas (NAD27)	TVD Reference:	WELL @ 1633.90usft (Patterson 264)
Site:	Randolph Trust 2107	MD Reference:	WELL @ 1633.90usft (Patterson 264)
Well:	31-1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Well Planning Conroe

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,971.00	92.20	179.70	3,494.04	-702.22	-33.86	702.20	4.21	4.07	-1.10
4,063.00	90.70	180.60	3,491.71	-794.19	-34.10	794.17	1.90	-1.63	0.98
4,156.00	91.20	181.10	3,490.17	-887.16	-35.48	887.14	0.76	0.54	0.54
4,250.00	90.10	180.00	3,489.10	-981.15	-36.38	981.13	1.65	-1.17	-1.17
4,344.00	90.60	179.60	3,488.53	-1,075.15	-36.05	1,075.13	0.68	0.53	-0.43
4,437.00	91.20	179.60	3,487.07	-1,168.13	-35.40	1,168.11	0.65	0.65	0.00
4,531.00	89.30	178.50	3,486.66	-1,262.11	-33.84	1,262.09	2.34	-2.02	-1.17
4,625.00	89.90	177.80	3,487.32	-1,356.06	-30.81	1,356.04	0.98	0.64	-0.74
4,718.00	89.30	177.80	3,487.97	-1,448.99	-27.24	1,448.97	0.65	-0.65	0.00
4,812.00	89.80	177.40	3,488.70	-1,542.90	-23.30	1,542.89	0.68	0.53	-0.43
4,906.00	91.30	179.40	3,487.80	-1,636.85	-20.68	1,636.84	2.66	1.60	2.13
4,999.00	91.50	180.30	3,485.53	-1,729.83	-20.43	1,729.81	0.99	0.22	0.97
5,093.00	89.10	179.20	3,485.04	-1,823.81	-20.02	1,823.80	2.81	-2.55	-1.17
5,186.00	87.70	177.40	3,487.63	-1,916.73	-17.27	1,916.72	2.45	-1.51	-1.94
5,280.00	88.00	176.60	3,491.16	-2,010.54	-12.35	2,010.53	0.91	0.32	-0.85
5,374.00	88.60	175.30	3,493.95	-2,104.26	-5.72	2,104.25	1.52	0.64	-1.38
5,468.00	88.80	177.10	3,496.08	-2,198.02	0.51	2,198.02	1.93	0.21	1.91
5,561.00	89.80	179.60	3,497.22	-2,290.97	3.19	2,290.97	2.90	1.08	2.69
5,655.00	90.50	179.70	3,496.97	-2,384.97	3.76	2,384.97	0.75	0.74	0.11
5,749.00	91.30	179.00	3,495.50	-2,478.95	4.83	2,478.95	1.13	0.85	-0.74
5,842.00	90.50	180.70	3,494.03	-2,571.93	5.07	2,571.93	2.02	-0.86	1.83
5,936.00	88.70	181.20	3,494.69	-2,665.91	3.51	2,665.91	1.99	-1.91	0.53
6,030.00	89.40	180.30	3,496.25	-2,759.89	2.28	2,759.89	1.21	0.74	-0.96
6,124.00	90.40	180.10	3,496.41	-2,853.89	1.96	2,853.89	1.08	1.06	-0.21
6,217.00	89.70	181.80	3,496.33	-2,946.87	0.41	2,946.87	1.98	-0.75	1.83
6,311.00	90.10	181.70	3,496.50	-3,040.83	-2.46	3,040.82	0.44	0.43	-0.11
6,405.00	90.40	181.00	3,496.09	-3,134.80	-4.67	3,134.80	0.81	0.32	-0.74
6,498.00	91.30	180.40	3,494.71	-3,227.78	-5.81	3,227.78	1.16	0.97	-0.65
6,592.00	89.50	180.70	3,494.05	-3,321.77	-6.71	3,321.77	1.94	-1.91	0.32
6,686.00	90.20	181.00	3,494.30	-3,415.76	-8.10	3,415.75	0.81	0.74	0.32
6,779.00	89.30	180.30	3,494.70	-3,508.75	-9.16	3,508.74	1.23	-0.97	-0.75
6,873.00	90.10	179.20	3,495.19	-3,602.75	-8.75	3,602.74	1.45	0.85	-1.17
6,967.00	89.50	179.60	3,495.52	-3,696.74	-7.76	3,696.73	0.77	-0.64	0.43
7,061.00	89.30	178.30	3,496.51	-3,790.72	-6.04	3,790.71	1.40	-0.21	-1.38
7,154.00	89.30	177.80	3,497.64	-3,883.65	-2.88	3,883.65	0.54	0.00	-0.54
7,248.00	89.50	177.10	3,498.63	-3,977.56	1.30	3,977.56	0.77	0.21	-0.74
7,342.00	89.80	176.30	3,499.20	-4,071.40	6.72	4,071.40	0.91	0.32	-0.85
7,416.00	89.80	176.30	3,499.46	-4,145.24	11.49	4,145.25	0.00	0.00	0.00

Projection to TD-7416.00' MD



Company:	Shell	Local Co-ordinate Reference:	Well 31-1H
Project:	Rice County, Kansas (NAD27)	TVD Reference:	WELL @ 1633.90usft (Patterson 264)
Site:	Randolph Trust 2107	MD Reference:	WELL @ 1633.90usft (Patterson 264)
Well:	31-1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Well Planning Conroe

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,416.00	3,499.46	-4,145.24	11.49	Projection to TD-7416.00' MD

T21S, R7W, 6th P.M.

SGOMI

Well location, RANDOLPH 2107 #31-1H, located as shown in the NE 1/4 NE 1/4 of Section 31, T21S, R7W, 6th P.M., Rice County, Kansas.

BASIS OF ELEVATION

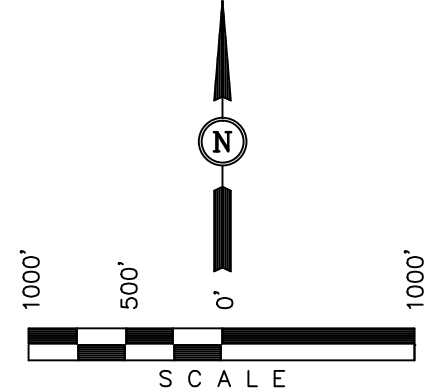
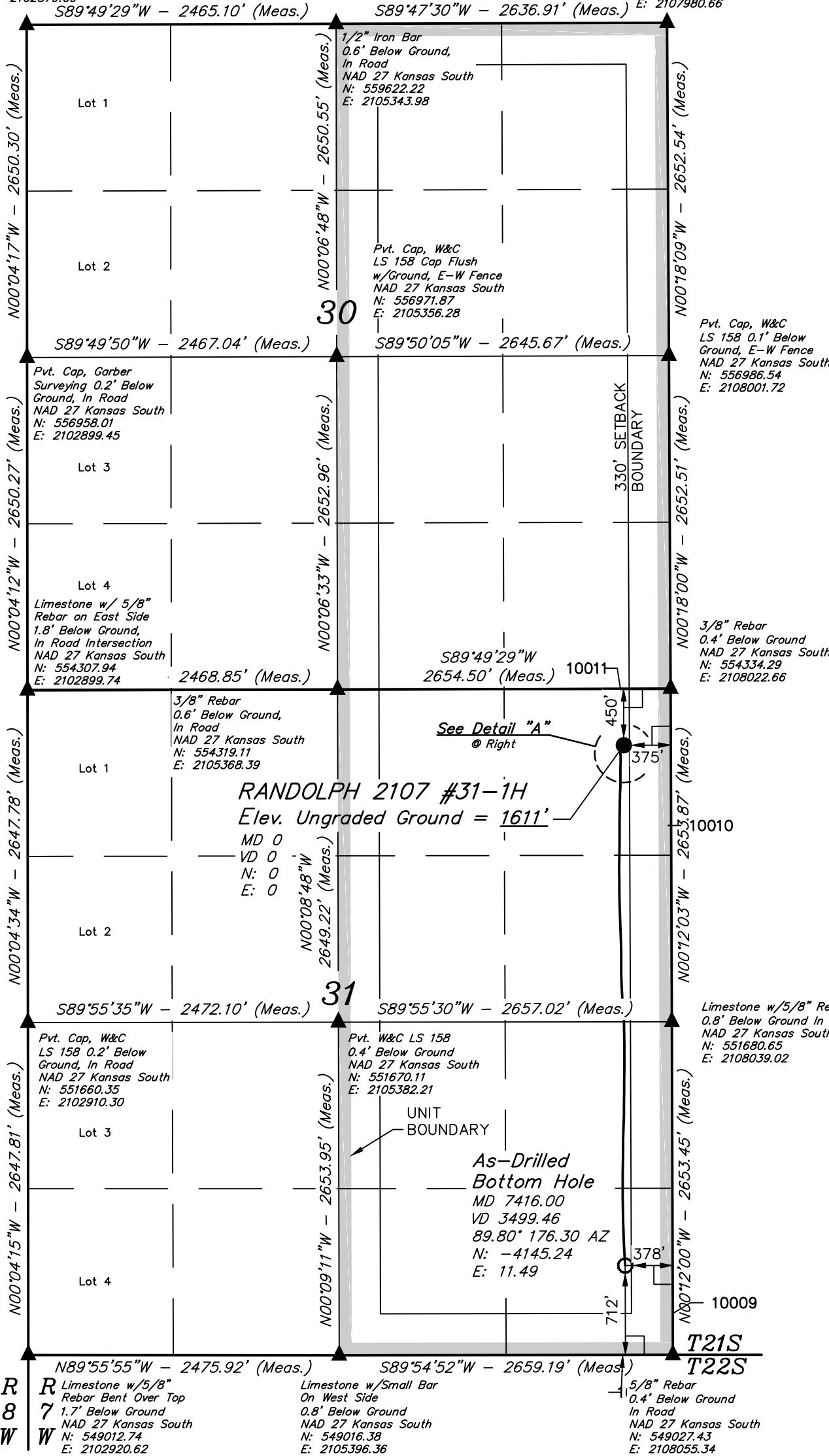
SPOT ELEVATION LOCATED AT THE SOUTHWEST CORNER OF SECTION 18, T23S, R8W, 6th P.M. TAKEN FROM THE ALDEN SE, QUADRANGLE, KANSAS, RENO COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY, SAID ELEVATION IS MARKED AS BEING 1688 FEET.

BASIS OF BEARINGS

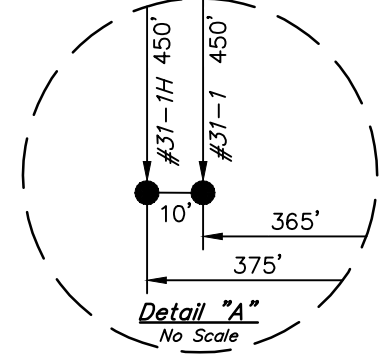
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

1/2" Rebar Over
Bent 5/8" Rebar
1.0' Below Ground
NAD 27 Kansas South
N: 559608.12
E: 2102879.09

5/8" Iron Bar
0.6' Below Ground,
In Road
NAD 27 Kansas South
N: 559638.82
E: 2107980.66



- LEGEND:**
- └─┘ = 90° SYMBOL
 - = PROPOSED WELL HEAD.
 - ▲ = SECTION CORNERS LOCATED.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert J. ...

REGISTERED LAND SURVEYOR
REGISTRATION NO. 1451
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 02-25-13	DATE DRAWN: 03-12-13
PARTY B.L. T.B. C.A.G.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE SGOMI	

NAD 83 (#3-1H AS-DRILLED BOTTOM HOLE) LATITUDE = 38°10'33.11" (38.175864) LONGITUDE = 98°07'32.79" (98.125775)	NAD 83 (#31-1H SURFACE LOCATION) LATITUDE = 38°11'14.09" (38.187247) LONGITUDE = 98°07'32.86" (98.125794)
NAD 27 (#3-1H AS-DRILLED BOTTOM HOLE) LATITUDE = 38°10'33.07" (38.175853) LONGITUDE = 98°07'31.58" (98.125439)	NAD 27 (#31-1H SURFACE LOCATION) LATITUDE = 38°11'14.05" (38.187236) LONGITUDE = 98°07'31.65" (98.125458)
STATE PLANE NAD 27 (KANSAS SOUTH) N: 549737.39 E: 2107673.17	STATE PLANE NAD 27 (KANSAS SOUTH) N: 553882.31 E: 2107650.66

Summary of Changes

Lease Name and Number: Randolph Trust 2107 31-1H

API/Permit #: 15-159-22723-01-00

Doc ID: 1133597

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Amount of Surface Pipe Set and Cemented at	0	533
Approved Date	02/05/2013	04/17/2013
CasingAdd_Type_PctPDF_1		Attached
CasingNumbSacksUsedPDF_1	22	Attached
CasingPurposeOfStringPDF_1	Conductor	Attached
CasingSettingDepthPDF_1	62	Attached
CasingSizeCasingSetPDF_1	18	Attached
CasingSizeHoleDrilledPDF_1	24	Attached
CasingTypeOfCementPDF_1	Portland Neat	Attached
CasingWeightPDF_1	45	Attached

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Completion Or Recompletion Date	01/22/2013	04/14/2013
Date Reached TD	01/22/2013	02/23/2013
Electric Log Run?	No	Yes
Electric Log Submitted Electronically?		Yes
Elogs_PDF		Triple Combo
Formation Top Source - Log	No	Yes
Kelly Bushing Elevation	0	1635
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		6807
Producing Formation	CONDUCTOR ONLY	Mississippi
Production Interval #1		3837'
Production Interval #2		6780'
Purchaser's Name	CONDUCTOR ONLY	
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1113184	../../../../kcc/detail/operatorEditDetail.cfm?docID=1133597
Spud Or Recompletion Date	01/21/2013	02/05/2013
TopsDepth1		2986
TopsDepth2		3315
TopsDepth3		3404
TopsDepth4		3547
TopsDepth5		3646
TopsName1	CONDUCTOR ONLY	Lansing

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
TopsName2		Hushpuckney
TopsName3		Marmaton
TopsName4		Cherokee
TopsName5		Mississippi
Total Depth	62	7416
Tubing Packer At		N/A
Tubing Record - Set At		2907
Tubing Size		2.875

Summary of Attachments

Lease Name and Number: Randolph Trust 2107 31-1H

API: 15-159-22723-01-00

Doc ID: 1133597

Correction Number: 1

Attachment Name

Randolph Trust 2107 31-1H Conductor record

Randolph Trust 2107 31-1H Surface Cement job

Randolph Trust 2107 31-1H Inter Cement job

Randolph Trust 2107 31-1H Liner Cement job

Shell Randolph Trust 2107 31-1H - Directional Survey

RANDOLPH TRUST 2107 31-1H AS-DRILLED PLAT



CONFIDENTIAL

WELL COMPLETION FORM

Form Must Be Typed
Form must be Signed
All blanks must be Filled

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. 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
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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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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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:	
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SHELL GULF OF MEXICO, INC. (34574)	Randolph Trust 2107-31	
BOART LONGYEAR COMPANY (32978) (SET THE CONDUCTOR)	1-H conductor	1-H mouse hole
Call in DATE OF SPUD	1/23/2013	
spud in date	1/21/2013	1/24/2013
T.D date	1/22/2013	1/25/2013
Size Hole Drilled	24"	18"
Size Casing Set (in O.D)	18"	14"
conductor wall thickness	.236	.219
Weight Lbs./Ft.	45lbs	32.26lbs
Setting Depth	62ft	76ft
Type of Cement	portland neat	portland neat
Cubic yards of cement	3.7yds	4yds
2500 PSI Grout Mix	yes	yes
Type and Percent of Additives	0%	0%
Comments	0-to 6ft fill type material 6ft-to-63ft course brown sand and small gravel 63 ft to 75.4 ft sandstone type / fractured and red water zone at 13ft to 63ft static level 13ft plug depth at 58 ft	0-to 6ft fill type material 6ft-to-63ft course brown sand and small gravel 63 ft to 75.4 ft sandstone type / fractured and red water zone at 13ft to 63ft static level 13ft plug depth at 76 ft

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

February 01, 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 15-159-22723-01-00
Randolph Trust 2107 31-1H
NE/4 Sec.31-21S-07W
Rice 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