CORRECTION #1

Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1133597

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34574
Name: Shell Gulf of Mexico Inc.
Address 1: 150 N DAIRY-ASHFORD (77079)
Address 2: PO BOX 576 (77001-0576)
City: HOUSTON State: TX Zip: 77001 + 0576
Contact Person: Damonica Pierson
Phone: (832) 337-2172
CONTRACTOR: License # 32978
Name: Boart Longyear Company
Wellsite Geologist: Jessica Colberg
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 #:

02/05/2013 Spud Date or Recompletion Date
02/23/2013 Date Reached TD
04/14/2013 Completion Date or Recompletion Date

API No. 15 - 15-159-22723-01-00
Spot Description:
SW NE NE NE Sec. 31 Twp. 21 S. R. 7 ☐ East ☑ West
450 Feet from ☑ North / ☐ South Line of Section
375 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Rice
Lease Name: Randolph Trust 2107 Well #: 31-1H
Field Name: Wildcat
Producing Formation: Mississippi
Elevation: Ground: 1612 Kelly Bushing: 1635
Total Vertical Depth: 7416 Plug Back Total Depth: 6807
Amount of Surface Pipe Set and Cemented at: 533 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: 0 ppm Fluid volume: 0 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Plumb Thicket Landfill
Lease Name: N/A License #: 99999
Quarter SW Sec. 6 Twp. 31 S. R. 4 ☐ East ☑ West
County: Harper Permit #: KDHE Permit #0842

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: 02/01/2013
☑ **Confidential Release Date:** 02/01/2015
☐ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 04/17/2013

CORRECTION #1
Page Two

1133597

Operator Name: Shell Gulf of Mexico Inc. Lease Name: Randolph Trust 2107 Well #: 31-1H

Sec. 31 Twp. 21 S. R. 7 ☐ East ☑ West County: Rice

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Triple Combo

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Lansing	2986	
Hushpuckney	3315	
Marmaton	3404	
Cherokee	3547	
Mississippi	3646	

CASING RECORD ☑ New ☐ 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
Attached	Attached	Attached	Attached	Attached	Attached	Attached	Attached

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ 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 *(Amount and Kind of Material Used)*	Depth
Attached	Attached	Attached	Attached

TUBING RECORD: Size: 2.875 Set At: 2907 Packer At: N/A

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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:
3837'
6780'

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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
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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

BAKER HUGHES

CUSTOMER	DATE	F.R. #	SERV. SUPV.
SHELL WESTERN E & P INC	06-FEB-13	1001963618	James Kirkpatrick

LEASE & WELL NAME	LOCATION	COUNTY-PARISH-BLOCK
RANDOLPH TRUST 2107 #31-1H - API 15159227230	31-21S-7W	Rice Kansas

DISTRICT	DRILLING CONTRACTOR RIG #	TYPE OF JOB
McAlester	Patterson 264	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%cacl2,0.25ppsCeloflake		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 SIZE	% EXCESS	DEPTH	TBG-CSG-D.P. ID	OD	WGT.	TYPE	MD	TVD	GRADE	COLLAR DEPTHS SHOE	FLOAT	STAGE
12.25		540	8.921	9.625	36	CSG	533	506	J-55	533	465	

LAST CASING ID	OD	WGT	TYPE	MD	TVD	PKR-CMT RET-BR PL-LINER BRAND & TYPE	DEPTH	PERF. DEPTH TOP	BTM	TOP CONN SIZE	THREAD	WELL FLUID TYPE	WGT.
18.	18	47.		60	60					9.625	8RD	WATER BASED MU	8.9

DISPL. VOLUME VOLUME	UOM	DISPL. FLUID TYPE	WGT.	CAL. PSI BUMP PLUG	CAL. MAX PSI TO REV.	OP. MAX SQ. PSI	MAX TBG PSI RATED	Operator	MAX CSG PSI RATED	Operator	MIX WATER
36	BBLS	H2O	8.34	250					2816	830	RIG

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

PRESSURE/RATE DETAIL TIME HR:MIN.	PRESSURE - PSI PIPE	ANNULUS	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	EXPLANATION
						SAFETY MEETING: BJ CREW [X] CO. REP. [X]
						TEST LINES 2500 PSI
						CIRCULATING WELL - RIG [X] BJ [ ]
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:
[Y] N	200	[Y] N	46	146	0	Y [N]	

CEMENT JOB REPORT

CUSTOMER	DATE	F.R. #	SERV. SUPV.
SHELL WESTERN E & P INC	17-FEB-13	1001965992	Chad Mathis
LEASE & WELL NAME	**LOCATION**		**COUNTY-PARISH-BLOCK**
RANDOLPH TRUST 2107 #31-1H - API 15159227230	31-21S-7W		Rice Kansas
DISTRICT	**DRILLING CONTRACTOR RIG #**		**TYPE OF JOB**
McAlester	Patterson 264		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	
						TOTAL	302.5	83.85

Available Mix Water _____ Bbl. Available Displ. Fluid _____ Bbl.

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

LAST CASING ID	OD	WGT	TYPE	MD	TVD	PKR-CMT RET-BR PL-LINER BRAND & TYPE	DEPTH	PERF. DEPTH TOP	BTM	TOP CONN SIZE	THREAD	WELL FLUID TYPE	WGT.
8.9	9.625	36		500	500			4600	4600	7	8 RD	WATER BASED MU	9.5

DISPL. VOLUME VOLUME	UOM	DISPL. FLUID TYPE	WGT.	CAL. PSI BUMP PLUG	CAL. MAX PSI TO REV.	OP. MAX SQ. PSI	MAX TBG PSI RATED	Operator	MAX CSG PSI RATED	Operator	MIX WATER
144.4	BBLS	Displacement	8.34	800					9960	7960	Rig Tank

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

PRESSURE/RATE DETAIL TIME HR:MIN.	PRESSURE - PSI PIPE	ANNULUS	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	EXPLANATION
						SAFETY MEETING: BJ CREW [X] CO. REP. [X]
						TEST LINES 4000 PSI
						CIRCULATING WELL - RIG [X] BJ [ ]
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 PIPE	PRESSURE - PSI ANNULUS	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW [X] CO. REP. [X]
						TEST LINES 4000 PSI
						CIRCULATING WELL - RIG [X] BJ [ ]

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] N	1500	Y [N]	4	302.55	0	Y [N]	

CEMENT JOB REPORT

CUSTOMER	DATE	F.R. #	SERV. SUPV.
SHELL WESTERN E & P INC	28-FEB-13	1001967485	Justin D Stamper
LEASE & WELL NAME	**LOCATION**		**COUNTY-PARISH-BLOCK**
RANDOLPH TRUST 2107 #31-1H - API 15159227230	31-21S-7W		Rice Kansas
DISTRICT	**DRILLING CONTRACTOR RIG #**		**TYPE OF JOB**
McAlester	Patterson 264		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%fl62+.6%sms+.5%fl52	**125102899**	265	14.3	1.24	5.54	04:55	57	33.92
Displacement			8.34				97	

Available Mix Water 1000 **Bbl.** **Available Displ. Fluid** 1000 **Bbl.** **TOTAL** 194 33.92

HOLE SIZE	HOLE % EXCESS	HOLE DEPTH	TBG-CSG-D.P. ID	OD	WGT.	TYPE	MD	TVD	GRADE	COLLAR DEPTHS 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 ID	OD	WGT	TYPE	MD	TVD	PKR-CMT RET-BR PL-LINER BRAND & TYPE	DEPTH	PERF. DEPTH TOP	BTM	TOP CONN SIZE	THREAD	WELL FLUID TYPE	WGT.
6.3	7	26		3804	3804					2	1502	WATER BASED MU	8.6

DISPL. VOLUME VOLUME	UOM	DISPL. FLUID TYPE	WGT.	CAL. PSI BUMP PLUG	CAL. MAX PSI TO REV.	OP. MAX SQ. PSI	MAX TBG PSI RATED	Operator	MAX CSG PSI RATED	Operator	MIX WATER
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 TIME HR:MIN.	PRESSURE - PSI PIPE	ANNULUS	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	EXPLANATION
						SAFETY MEETING: BJ CREW [X] CO. REP. [X]
						TEST LINES 7000 PSI
						CIRCULATING WELL - RIG [X] BJ [ ]
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 Y	N	PSI TO BUMP PLUG	TEST FLOAT EQUIP. Y	N	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT Y	N	SERVICE SUPERVISOR SIGNATURE:
[Y]		1400	[Y]		0	137	0		[N]	

Shell

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

Wellbore #1

Survey: Extreme MWD

Standard Survey Report

25 February, 2013

MS Energy Services
WWW.MSENERGYSERVICES.COM

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
146.00	0.40	5.00	146.00	0.51	0.04	-0.51	0.27	0.27	0.00
208.00	1.00	288.60	207.99	0.90	-0.45	-0.90	1.59	0.97	-123.23
300.00	2.20	277.30	299.96	1.38	-2.96	-1.38	1.34	1.30	-12.28
392.00	3.40	272.30	391.85	1.71	-7.44	-1.71	1.33	1.30	-5.43
484.00	4.30	271.40	483.64	1.90	-13.61	-1.91	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
704.00	1.60	237.10	703.17	1.87	-27.48	-1.88	3.27	-2.77	-39.26
797.00	2.30	170.90	796.13	-0.68	-28.27	0.66	2.38	0.75	-71.18
891.00	1.10	154.90	890.08	-3.36	-27.59	3.34	1.36	-1.28	-17.02
983.00	0.70	180.60	982.07	-4.72	-27.22	4.71	0.61	-0.43	27.93
1,075.00	0.40	185.80	1,074.07	-5.60	-27.26	5.59	0.33	-0.33	5.65
1,168.00	0.30	205.50	1,167.07	-6.15	-27.40	6.13	0.17	-0.11	21.18
1,260.00	0.20	174.80	1,259.06	-6.52	-27.49	6.51	0.18	-0.11	-33.37
1,352.00	0.30	189.10	1,351.06	-6.92	-27.51	6.91	0.13	0.11	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 +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
7,416.00	3,499.46	-4,145.24	11.49	Projection to TD-7416.00' MD

T21S, R7W, 6th P.M.

SGOMI

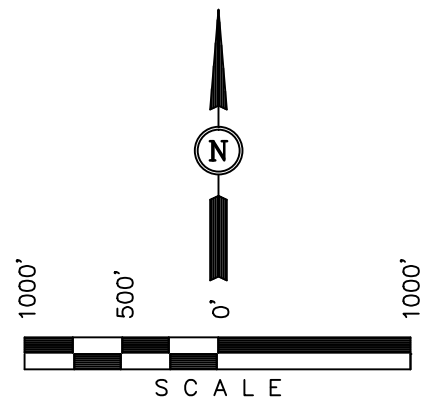
Well location, RANDOLPH 2107 #31–1H, located as shown in the NE 1/4 NE 1/4 of Section 31, T21S, R7W, 6th P.M., Rice County, Kansas.

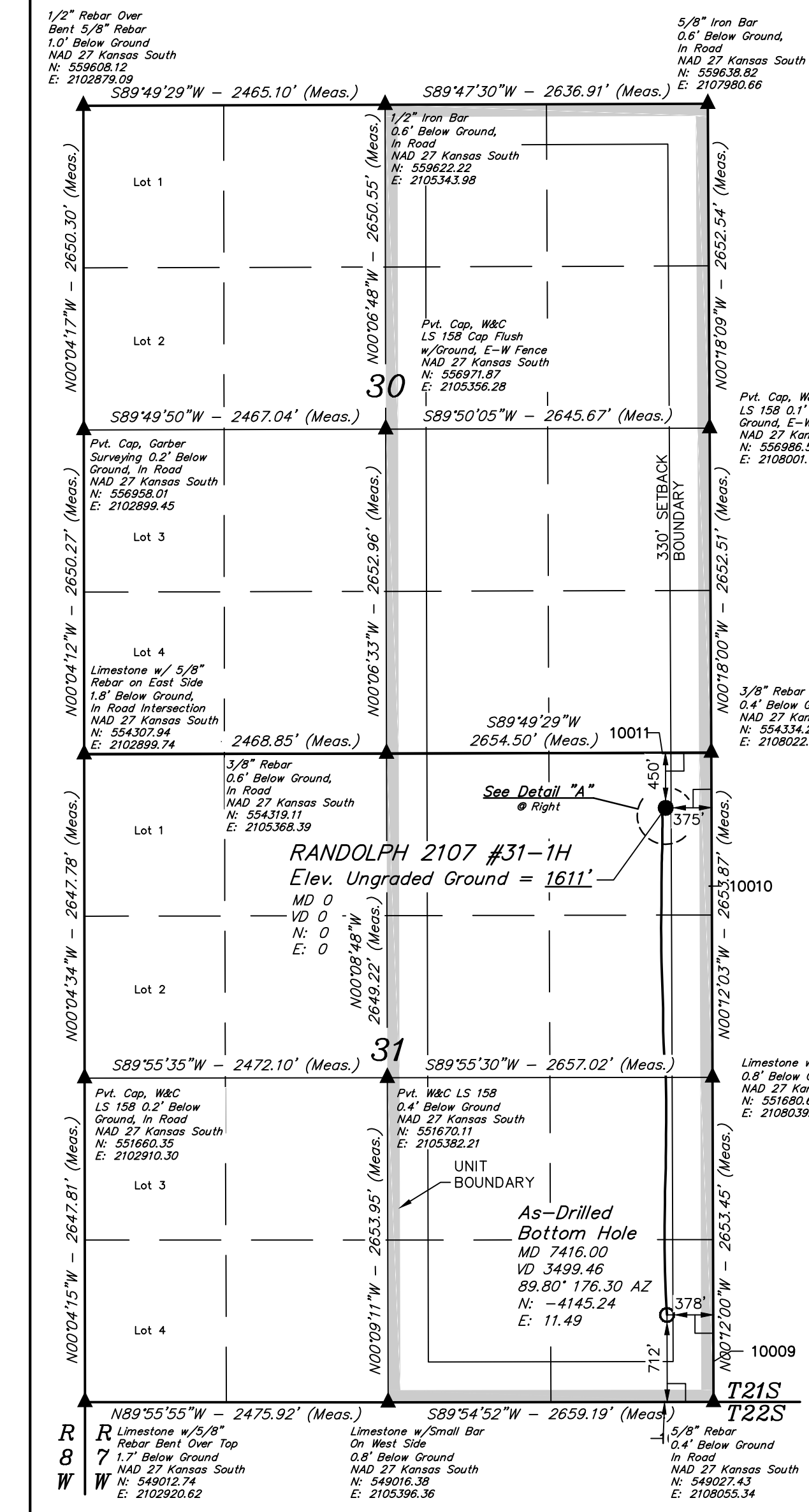
BASIS OF ELEVATION

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.



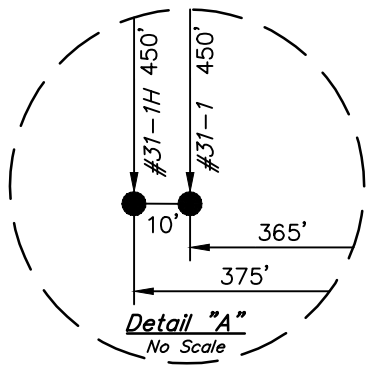


LEGEND:

└ = 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.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161321
STATE OF UTAH

03–15–13

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

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	

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

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1113184

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

OPERATOR: License # 34574
Name: Shell Gulf of Mexico Inc.
Address 1: 150 N DAIRY-ASHFORD (77079)
Address 2: PO BOX 576 (77001-0576)
City: HOUSTON State: TX Zip: 77001 + 0576
Contact Person: Damonica Pierson
Phone: (832) 337-2172
CONTRACTOR: License # 32978
Name: Boart Longyear Company
Wellsite Geologist: Jessica Colberg
Purchaser: CONDUCTOR ONLY

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [x] 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 #:

01/21/2013	01/22/2013	01/22/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-159-22723-01-00
Spot Description:
SW - NE - NE - NE Sec. 31 Twp. 21 S. R. 7 [ ] East [x] West
450 Feet from [x] North / [ ] South Line of Section
375 Feet from [x] East / [ ] West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- [x] NE
- [ ] NW
- [ ] SE
- [ ] SW

County: Rice
Lease Name: Randolph Trust 2107 Well #: 31-1H
Field Name: Wildcat
Producing Formation: CONDUCTOR ONLY
Elevation: Ground: 1612 Kelly Bushing: 0
Total Depth: 62 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 0 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] 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: 0 ppm Fluid volume: 0 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Plumb Thicket Landfill
Lease Name: N/A License #: 99999
Quarter SW Sec. 6 Twp. 31 S. R. 4 [ ] East [x] West
County: Harper Permit #: KDHE Permit #0842

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

- [x] **Letter of Confidentiality Received**
  Date: 02/01/2013
- [ ] **Confidential Release Date:**
- [ ] **Wireline Log Received**
- [ ] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [x] I [ ] II [ ] III **Approved by:** NAOMI JAMES **Date:** 02/05/2013