



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Confidentiality Requested:
 Yes No

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: _____



1136499

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
--	---

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Shell Gulf of Mexico Inc.
Well Name	Siegrist 2207 7-1H
Doc ID	1136499

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
3	4616 - 4890'	95130 gals fluid & 147253# proppant	
3	4966 - 5190'	98406 gals fluid & 182265# proppant	
3	5262 - 5486'	136836 gals fluid & 4852# proppant	
3	5558 - 5782'	63168 gals fluid & 20783# proppant	
3	5858 - 6078'	75180 gals fluid & 20962# proppant	
3	6180 - 6374'	93786 gals fluid & 174856# proppant	
3	6442 - 6670'	97062 gals fluid & 178083# proppant	
3	6742 - 6966'	97272 gals fluid & 176268# proppant	
3	7035 - 7262'	98280 gals fluid & 181851# proppant	
3	7334 - 7558'	101052 gals fluid & 178330# proppant	
3	7630 - 7854'	103656 gals fluid & 195147# proppant	

Form	ACO1 - Well Completion
Operator	Shell Gulf of Mexico Inc.
Well Name	Siegrist 2207 7-1H
Doc ID	1136499

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	369	Class C	270	See attached
Intermediate	8.75	7	26	3880	Class C	390	See attached
Liner	6.125	4.5	11.6	8004	Class H	350	See attached

SHELL GULF OF MEXICO, INC. (34574)	SIEGRIST 2207-1H	
PETE MARTIN DRILLING (34645) (SET THE CONDUCTOR)	1-H Conductor	1-H Mouse Hole
Call in DATE OF SPUD	12/21/2012	
spud in date	12/22/2012	12/29/2012
T.D date	12/29/2012	1/2/2013
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'	78'
Type of Cement	Type 1/2 portland cement	Type 1/2 portland cement
Cubic yards of cement	7cyd	5cyd
2500 PSI Grout Mix	yes	yes
Type and Percent of Additives	15% fly ash	15% fly ash
Comments	0-24ft sand 24-25ft clay 25-34ft sand 34-35ft clay 35-40ft sand 40-50ft sand 50-60ft clay water at 15ft	0-24ft sand 24-25ft clay 25-34ft sand 34-35ft clay 35-52ft sand 52-78ft clay water at 15ft

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 26-MAR-13	F.R. # 1001975224	SERV. SUPV. Chad Mathis
LEASE & WELL NAME SIEGRIST 2207 #7-1H - API 15155216240000	LOCATION 7-22S-7W		COUNTY-PARISH-BLOCK Reno Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG # Nabors 180		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	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
C + Additives		270	14.8	1.35	6.34	02:45	64.74	40.74
Displacement			8.34				23.97	
Water			8.34				20	
Available Mix Water <u>500</u> Bbl.		Available Displ. Fluid <u>500</u> Bbl.		TOTAL		108.70		40.74

HOLE			TBG-CSG-D.P.							COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
12.25		375	8.921	9.625	36	CSG	369	350		369.3	324	

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	8 RD		

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	
25.1	BBLS	Displacement	8.34	200					3520	2500	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	2500 PSI
						CIRCULATING WELL - RIG	<input checked="" type="checkbox"/> BJ <input type="checkbox"/>
12:00						Arrive On Location	
21:30						Pre-Job Safety Meeting	
22:20	2500					Test Lines	
22:25	250		3	20	WATER	Pump Spacer	
22:33	200		4	65	SLURRY	Pump Cement @ 14.8 ppg	
22:55						Shut Down Drop Plug	
22:58	200		2.5	25	WATER	Pump Displacement	
23:20	1300					Bump Plug Pressured up 500 Over Working PSI then Another 500 over that, held 10Min	
						Got .25 Bbl back to truck	
						Class C Cement + 2% Salt+ 0.25lbs/sck Cello Flake+0.006 gps FP-6L+0.01%Static Free	

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	N 200	Y <input type="checkbox"/> N	35	110	0	Y <input type="checkbox"/> N	

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 01-APR-13	F.R. # 1001976286	SERV. SUPV. Jonathan M Schulz
LEASE & WELL NAME SIEGRIST 2207 #7-1H - API 15155216240000	LOCATION 7-22S-7W		COUNTY-PARISH-BLOCK Reno Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG # Nabors 180		TYPE OF JOB Intermediate

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
	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	
C15:85:8 + 10%Salt +1/4pps Celloflake+4pps Kolseal		250	12.4	2.45	13.53	05:30	109	80.47
C50:50:2 +5%Salt+ 1/4ppsCelloflake+4ppsKolSeal+.3		140	14.2	1.32	5.66	03:45	35	20.06
fresh water			8.34				148	

Available Mix Water	400	Bbl.	Available Displ. Fluid	300	Bbl.	TOTAL	332	100.54
---------------------	-----	------	------------------------	-----	------	-------	-----	--------

HOLE			TBG-CSG-D.P.							COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
8.75		3891	6.276	7	26	CSG	3880	3517	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.
8.9	9.625	36	CSG	363	363			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	WATER
148	BBLS	fresh water	8.34	809					7968	4000	Frac Tank

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: Arrive on location 0100, Start to run Casing

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 5000 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
01:00						Arrive on locatin	
13:30				40	SEALBOND	rig pumps sealbond spacer	
13:46	5000				WATER	test pumps & lines	
13:49	98		3		LEAD	open well/start lead slurry 12.4ppg	
14:13	219		5	109	LEAD	end lead slurry/start tail slurry 14.2ppg	
14:22	63		4	35	TAIL	end tail slurry/shutdown	
14:27	43		3		WATER	drop TRP/start displacement	
14:37	303		5	45	WATE	bbls pumped when caught cement	
14:49	600		4	95	WATER	bbls pumped when circulate cement to surface	
15:01	960		3	138	WATER	slow rate to bump	
15:03	1500		3	148	WATER	bump plug	
15:04	2000					start casing test	
15:20	2000					end casing test	
15:21	0			-1		check floats/ holding/ bbls back	
						ciculated approximately 53bbls of cement to surface	
						Thanks for using BHI Pressure Pumping	
						Jonathan Schulz & Crew	

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 5000 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>
Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	53	332	0	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 11-APR-13	F.R. # 1001978093	SERV. SUPV. James Kirkpatrick
LEASE & WELL NAME SIEGRIST 2207 #7-1H - API 15155216240000	LOCATION 7-22S-7W		COUNTY-PARISH-BLOCK Reno Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG # Nabors 180		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			8.45				40	
H50:50,0.01%staticfree,3%cacl2,0.1%r3,0.5%fl62,0.6	125103015	350	14.3	1.24	5.54	05:57	77	45.82
Displacement			8.34				95	
Available Mix Water <u>150</u> Bbl.		Available Displ. Fluid <u>300</u> Bbl.		TOTAL			<u>212</u>	<u>45.82</u>

HOLE			TBG-CSG-D.P.							COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
6.125		8020	1	4.5	11.6	CSG	8004	8004	L-80	8004	7954	
			3.826	4.5	16.6	DP	4720	4720	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.
6.3	7	26		3847	3847						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	
95	BBLS	Displacement	8.34	450					8552	4500	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 5500 PSI					
12:05	5500				H2O	CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>					
12:30	1000		5	77	CEMENT	TEST, START CEMENT @ 14.3#					
12:45	1350		4	24	H2O DISP	PUMP CEMENT, SHUT DOWN, WASH TRUCK TO PIT, DROP PLUG, START DISPLACEMENT					
13:00	800		4	95	H2O DISP	PUMP 24 BBL DISPLACEMENT, SHEAR PLUG, CONTINUE DISPALCEMENT					
13:15						PUMP 95 BBL DISPLACEMENT, BUMP PLUG @ 800 PSI, TOOK PRESSURE UP TO @ 1300 PSI, HOLD 10 MINUTES, BLEED OFF, SET TOOL, PRESSURE BACKSIDE UP TO @ 4500 PSI					
13:30	4500					BLEED OFF, SET TOOL					
13:50						PRESSURE UP BACKSIDE TO 4500 PSI AND HOLD					
						HELD PRESSURE ON BACKSIDE FOR 20 MINUTES, BLEED OFF, RIG DOWN					
						CEMENT : 50/50 CLASS H + 0.01% STATIC FREE + 3% SALT + 0.1% R-3 + 0.5% FL-62 + 0.6% SMS + 0.5% FL-52A					
						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	N 450	<input checked="" type="checkbox"/> Y	N 0	212	0	Y <input type="checkbox"/> N	

Job# 900033716
Rig: Nabors 180

Shell Exploration & Production Co. Inc.

Reno Co. KS (NAD-27) Sec 07-T22S-R07W (Grid)
API# 151552162401

Siegrist 2207 #7-1H (280 FSL, 235 FEL)

Wellbore #1

Design: Final Survey

Sperry Drilling Services

Combo Report With Grid North & True North

24 April, 2013

TD Date : 26th Mar, 2013

Well Coordinates: 38° 08' 44.06" N
098° 07' 32.54" W

NAD 1927 (NADCON CONUS)
Kansas South 1502
538,711.01 N
2,107,641.00 E

Ground Level: 1,602.00 ft

Local Coordinate Origin:

Centered on Well Siegrist 2207 #7-1H

Viewing Datum:

WELL @ 1625.00ft (Nabors 180 (23'))

TVDs to System:

N

North Reference:

Grid

Unit System:

API US New

Version: 2003.21 Build: 46

HALLIBURTON

Design Report for Siegrist 2207 #7-1H - Final Survey

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	True Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates (ft)		Map Coordinates (ft)		Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
						Northing	Easting	Northing	Easting			
0.00	0.00	0.00	0.22	-1,625.00	0.00	0.00 N	0.00 E	538,711.01	2,107,641.00	0.00	0.00	
82.00	0.14	225.57	225.79	-1,543.00	82.00	0.07 S	0.07 W	538,710.94	2,107,640.93	0.17	-0.07	
152.00	0.06	196.25	196.47	-1,473.00	152.00	0.17 S	0.14 W	538,710.84	2,107,640.86	0.13	-0.17	
222.00	0.26	214.93	215.15	-1,403.00	222.00	0.33 S	0.24 W	538,710.68	2,107,640.76	0.29	-0.34	
292.00	0.32	210.03	210.25	-1,333.00	292.00	0.63 S	0.43 W	538,710.38	2,107,640.57	0.09	-0.64	
362.00	0.36	218.84	219.06	-1,263.00	362.00	0.97 S	0.67 W	538,710.04	2,107,640.33	0.09	-0.98	
430.00	0.20	185.80	186.02	-1,195.00	430.00	1.26 S	0.81 W	538,709.75	2,107,640.19	0.33	-1.27	
525.00	0.30	170.50	170.72	-1,100.00	525.00	1.67 S	0.79 W	538,709.34	2,107,640.21	0.13	-1.68	
999.00	0.20	265.10	265.32	-626.01	998.99	2.96 S	1.41 W	538,708.05	2,107,639.59	0.08	-2.99	
1,092.00	0.20	251.30	251.52	-533.01	1,091.99	3.03 S	1.73 W	538,707.98	2,107,639.27	0.05	-3.06	
1,185.00	0.20	237.60	237.82	-440.01	1,184.99	3.16 S	2.02 W	538,707.85	2,107,638.98	0.05	-3.20	
1,278.00	0.20	269.70	269.92	-347.01	1,277.99	3.25 S	2.32 W	538,707.76	2,107,638.68	0.12	-3.30	
1,371.00	0.10	216.70	216.92	-254.01	1,370.99	3.32 S	2.53 W	538,707.69	2,107,638.47	0.17	-3.37	
1,465.00	0.10	221.60	221.82	-160.01	1,464.99	3.45 S	2.63 W	538,707.56	2,107,638.37	0.01	-3.50	
1,558.00	0.00	282.00	282.22	-67.01	1,557.99	3.51 S	2.68 W	538,707.50	2,107,638.32	0.11	-3.56	
1,651.00	0.00	4.90	5.12	25.99	1,650.99	3.51 S	2.68 W	538,707.50	2,107,638.32	0.00	-3.56	
1,745.00	0.10	184.40	184.62	119.99	1,744.99	3.59 S	2.69 W	538,707.42	2,107,638.31	0.11	-3.64	
1,838.00	0.10	4.40	4.62	212.99	1,837.99	3.59 S	2.69 W	538,707.42	2,107,638.31	0.22	-3.64	
1,932.00	0.00	73.40	73.62	306.99	1,931.99	3.51 S	2.68 W	538,707.50	2,107,638.32	0.11	-3.56	
2,026.00	0.10	128.50	128.72	400.99	2,025.99	3.56 S	2.62 W	538,707.45	2,107,638.38	0.11	-3.61	
2,121.00	0.10	212.00	212.22	495.99	2,120.99	3.68 S	2.60 W	538,707.33	2,107,638.40	0.14	-3.73	
2,215.00	0.10	184.40	184.62	589.99	2,214.99	3.83 S	2.65 W	538,707.18	2,107,638.35	0.05	-3.88	
2,310.00	0.10	274.90	275.12	684.99	2,309.99	3.91 S	2.74 W	538,707.10	2,107,638.26	0.15	-3.96	
2,405.00	0.20	155.60	155.82	779.99	2,404.99	4.05 S	2.75 W	538,706.96	2,107,638.25	0.28	-4.10	
2,500.00	0.30	196.80	197.02	874.99	2,499.99	4.44 S	2.75 W	538,706.57	2,107,638.25	0.21	-4.49	
2,595.00	0.20	170.00	170.22	969.99	2,594.99	4.84 S	2.80 W	538,706.17	2,107,638.20	0.16	-4.90	
2,690.00	0.00	118.10	118.32	1,064.99	2,689.99	5.00 S	2.77 W	538,706.01	2,107,638.23	0.21	-5.06	
2,784.00	0.20	213.10	213.32	1,158.99	2,783.99	5.14 S	2.86 W	538,705.87	2,107,638.14	0.21	-5.20	
2,879.00	0.80	16.60	16.82	1,253.99	2,878.99	4.64 S	2.76 W	538,706.37	2,107,638.24	1.05	-4.70	
2,911.00	2.40	357.90	358.12	1,285.97	2,910.97	3.76 S	2.72 W	538,707.25	2,107,638.28	5.19	-3.81	
2,942.00	3.90	357.70	357.92	1,316.92	2,941.92	2.06 S	2.79 W	538,708.95	2,107,638.21	4.84	-2.11	
2,974.00	4.90	350.60	350.82	1,348.83	2,973.83	0.38 N	3.05 W	538,711.39	2,107,637.95	3.55	0.32	
3,005.00	6.80	352.70	352.92	1,379.67	3,004.67	3.50 N	3.50 W	538,714.51	2,107,637.50	6.17	3.43	
3,037.00	9.30	355.30	355.52	1,411.35	3,036.35	7.96 N	3.96 W	538,718.97	2,107,637.04	7.89	7.88	
3,068.00	12.30	359.10	359.32	1,441.80	3,066.80	13.76 N	4.21 W	538,724.77	2,107,636.79	9.94	13.67	
3,100.00	15.80	0.70	0.92	1,472.83	3,097.83	21.53 N	4.21 W	538,732.54	2,107,636.79	11.00	21.44	
3,132.00	19.10	0.60	0.82	1,503.36	3,128.36	31.12 N	4.10 W	538,742.13	2,107,636.90	10.31	31.03	

Design Report for Siegrist 2207 #7-1H - Final Survey

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	True Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates (ft)		Map Coordinates (ft)		Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
						Northing	Easting	Northing	Easting			
3,163.00	22.10	2.00	2.22	1,532.37	3,157.37	42.02 N	3.85 W	538,753.03	2,107,637.15	9.81	41.94	
3,195.00	24.40	2.70	2.92	1,561.77	3,186.77	54.64 N	3.33 W	538,765.65	2,107,637.67	7.24	54.57	
3,227.00	25.80	3.30	3.52	1,590.75	3,215.75	68.20 N	2.61 W	538,779.21	2,107,638.39	4.45	68.13	
3,258.00	28.30	1.90	2.12	1,618.36	3,243.36	82.28 N	1.98 W	538,793.29	2,107,639.02	8.32	82.22	
3,290.00	31.50	359.80	360.02	1,646.09	3,271.09	98.23 N	1.76 W	538,809.24	2,107,639.24	10.52	98.17	
3,322.00	34.20	359.70	359.92	1,672.97	3,297.97	115.58 N	1.84 W	538,826.59	2,107,639.16	8.44	115.52	
3,353.00	37.40	359.10	359.32	1,698.11	3,323.11	133.71 N	2.03 W	538,844.72	2,107,638.97	10.38	133.65	
3,385.00	41.00	359.10	359.32	1,722.91	3,347.91	153.93 N	2.35 W	538,864.94	2,107,638.65	11.25	153.85	
3,416.00	42.90	1.40	1.62	1,745.96	3,370.96	174.65 N	2.25 W	538,885.66	2,107,638.75	7.88	174.57	
3,448.00	45.40	2.60	2.82	1,768.92	3,393.92	196.92 N	1.47 W	538,907.93	2,107,639.53	8.24	196.85	
3,480.00	48.10	1.80	2.02	1,790.85	3,415.85	220.21 N	0.58 W	538,931.22	2,107,640.42	8.63	220.16	
3,511.00	51.50	2.70	2.92	1,810.85	3,435.85	243.87 N	0.36 E	538,954.88	2,107,641.36	11.19	243.83	
3,543.00	54.80	2.30	2.52	1,830.04	3,455.04	269.44 N	1.47 E	538,980.45	2,107,642.47	10.36	269.42	
3,575.00	58.70	2.60	2.82	1,847.59	3,472.59	296.18 N	2.62 E	539,007.19	2,107,643.62	12.21	296.17	
3,606.00	62.70	2.90	3.12	1,862.75	3,487.75	323.17 N	3.92 E	539,034.18	2,107,644.92	12.93	323.19	
3,638.00	66.60	2.00	2.22	1,876.45	3,501.45	352.06 N	5.15 E	539,063.07	2,107,646.15	12.45	352.09	
3,670.00	70.30	2.00	2.22	1,888.20	3,513.20	381.80 N	6.19 E	539,092.81	2,107,647.19	11.56	381.85	
3,701.00	72.20	1.50	1.72	1,898.17	3,523.17	411.14 N	7.08 E	539,122.15	2,107,648.08	6.32	411.20	
3,732.00	73.80	1.60	1.82	1,907.23	3,532.23	440.77 N	7.89 E	539,151.78	2,107,648.89	5.17	440.84	
3,764.00	76.00	1.80	2.02	1,915.57	3,540.57	471.65 N	8.80 E	539,182.66	2,107,649.80	6.90	471.73	
3,795.00	78.00	2.30	2.52	1,922.54	3,547.54	501.84 N	9.88 E	539,212.85	2,107,650.88	6.64	501.93	
3,827.00	81.30	3.80	4.02	1,928.29	3,553.29	533.27 N	11.56 E	539,244.28	2,107,652.56	11.30	533.39	
3,939.00	80.36	3.03	3.25	1,946.14	3,571.14	643.64 N	18.15 E	539,354.65	2,107,659.15	1.08	643.87	Start MWD @ 3939.00 MD
3,970.00	80.56	3.36	3.58	1,951.27	3,576.27	674.16 N	19.85 E	539,385.17	2,107,660.85	1.23	674.42	
4,002.00	82.45	2.81	3.03	1,956.00	3,581.00	705.76 N	21.55 E	539,416.77	2,107,662.55	6.15	706.05	
4,034.00	85.90	3.09	3.31	1,959.25	3,584.25	737.55 N	23.19 E	539,448.56	2,107,664.19	10.82	737.86	
4,065.00	89.26	2.86	3.08	1,960.56	3,585.56	768.48 N	24.80 E	539,479.48	2,107,665.80	10.86	768.82	
4,097.00	90.06	2.46	2.68	1,960.75	3,585.75	800.44 N	26.28 E	539,511.45	2,107,667.28	2.80	800.80	
4,128.00	90.00	2.69	2.91	1,960.73	3,585.73	831.41 N	27.68 E	539,542.42	2,107,668.68	0.77	831.79	
4,160.00	91.42	2.91	3.13	1,960.33	3,585.33	863.37 N	29.24 E	539,574.38	2,107,670.24	4.49	863.78	
4,192.00	92.50	1.87	2.09	1,959.24	3,584.24	895.32 N	30.57 E	539,606.33	2,107,671.57	4.68	895.75	
4,223.00	93.24	0.87	1.09	1,957.69	3,582.69	926.27 N	31.31 E	539,637.28	2,107,672.31	4.01	926.71	
4,255.00	93.42	0.56	0.78	1,955.83	3,580.83	958.22 N	31.71 E	539,669.22	2,107,672.71	1.12	958.66	
4,286.00	93.45	0.99	1.21	1,953.97	3,578.97	989.16 N	32.13 E	539,700.16	2,107,673.13	1.39	989.60	
4,318.00	93.77	0.71	0.93	1,951.96	3,576.96	1,021.09 N	32.61 E	539,732.10	2,107,673.61	1.33	1,021.54	
4,350.00	94.10	359.38	359.60	1,949.76	3,574.76	1,053.01 N	32.63 E	539,764.02	2,107,673.63	4.27	1,053.45	
4,381.00	94.38	359.53	359.75	1,947.47	3,572.47	1,083.93 N	32.34 E	539,794.94	2,107,673.34	1.02	1,084.36	

Design Report for Siegrist 2207 #7-1H - Final Survey

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	True Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates (ft)		Map Coordinates (ft)		Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
						Northing	Easting	Northing	Easting			
4,413.00	94.56	359.47	359.69	1,944.98	3,569.98	1,115.83 N	32.06 E	539,826.84	2,107,673.06	0.59	1,116.24	
4,444.00	94.10	358.50	358.72	1,942.63	3,567.63	1,146.73 N	31.51 E	539,857.74	2,107,672.51	3.45	1,147.13	
4,508.00	94.20	358.42	358.64	1,938.00	3,563.00	1,210.54 N	29.80 E	539,921.55	2,107,670.79	0.20	1,210.90	
4,539.00	94.38	358.88	359.10	1,935.68	3,560.68	1,241.45 N	29.07 E	539,952.46	2,107,670.07	1.59	1,241.78	
4,571.00	92.87	358.64	358.86	1,933.66	3,558.66	1,273.38 N	28.38 E	539,984.38	2,107,669.38	4.78	1,273.69	
4,602.00	93.24	358.42	358.64	1,932.01	3,557.01	1,304.32 N	27.58 E	540,015.33	2,107,668.58	1.39	1,304.61	
4,634.00	92.83	359.68	359.90	1,930.31	3,555.31	1,336.27 N	27.05 E	540,047.28	2,107,668.05	4.14	1,336.55	
4,666.00	92.22	1.03	1.25	1,928.90	3,553.90	1,368.24 N	27.25 E	540,079.25	2,107,668.25	4.63	1,368.51	
4,697.00	91.67	1.26	1.48	1,927.85	3,552.85	1,399.21 N	27.87 E	540,110.22	2,107,668.87	1.92	1,399.49	
4,729.00	90.18	0.54	0.76	1,927.34	3,552.34	1,431.21 N	28.37 E	540,142.21	2,107,669.37	5.17	1,431.49	
4,792.00	90.12	0.68	0.90	1,927.17	3,552.17	1,494.20 N	29.04 E	540,205.21	2,107,670.04	0.24	1,494.48	
4,856.00	90.77	0.59	0.81	1,926.67	3,551.67	1,558.20 N	29.75 E	540,269.20	2,107,670.75	1.03	1,558.48	
4,919.00	89.35	0.13	0.35	1,926.61	3,551.61	1,621.19 N	30.15 E	540,332.20	2,107,671.15	2.37	1,621.47	
4,982.00	88.95	0.19	0.41	1,927.54	3,552.54	1,684.19 N	30.32 E	540,395.19	2,107,671.32	0.64	1,684.46	
5,077.00	89.38	0.30	0.52	1,928.93	3,553.93	1,779.17 N	30.73 E	540,490.18	2,107,671.73	0.47	1,779.43	
5,170.00	90.37	0.13	0.35	1,929.13	3,554.13	1,872.17 N	31.08 E	540,583.18	2,107,672.08	1.08	1,872.42	
5,263.00	90.31	0.53	0.75	1,928.58	3,553.58	1,965.17 N	31.61 E	540,676.17	2,107,672.61	0.43	1,965.41	
5,356.00	89.85	0.10	0.32	1,928.45	3,553.45	2,058.17 N	32.13 E	540,769.17	2,107,673.13	0.68	2,058.40	
5,449.00	89.63	359.47	359.69	1,928.87	3,553.87	2,151.16 N	31.78 E	540,862.17	2,107,672.78	0.72	2,151.37	
5,542.00	89.17	358.81	359.03	1,929.84	3,554.84	2,244.15 N	30.38 E	540,955.15	2,107,671.38	0.87	2,244.31	
5,636.00	89.75	359.25	359.47	1,930.73	3,555.73	2,338.13 N	28.79 E	541,049.14	2,107,669.79	0.77	2,338.24	
5,729.00	88.95	358.42	358.64	1,931.78	3,556.78	2,431.10 N	26.90 E	541,142.11	2,107,667.90	1.24	2,431.16	
5,822.00	90.52	358.31	358.53	1,932.21	3,557.21	2,524.06 N	24.25 E	541,235.07	2,107,665.25	1.69	2,524.05	
5,915.00	92.00	359.04	359.26	1,930.17	3,555.17	2,617.01 N	22.10 E	541,328.02	2,107,663.10	1.77	2,616.93	
6,009.00	92.56	359.42	359.64	1,926.43	3,551.43	2,710.93 N	20.83 E	541,421.93	2,107,661.83	0.72	2,710.81	
6,104.00	91.85	359.67	359.89	1,922.78	3,547.78	2,805.85 N	20.08 E	541,516.86	2,107,661.08	0.79	2,805.70	
6,198.00	89.32	0.43	0.65	1,921.82	3,546.82	2,899.84 N	20.16 E	541,610.84	2,107,661.16	2.81	2,899.67	
6,293.00	87.56	0.76	0.98	1,924.40	3,549.40	2,994.80 N	21.15 E	541,705.80	2,107,662.15	1.88	2,994.63	
6,388.00	88.49	1.18	1.40	1,927.68	3,552.68	3,089.72 N	22.75 E	541,800.73	2,107,663.75	1.07	3,089.57	
6,483.00	87.87	0.80	1.02	1,930.69	3,555.69	3,184.66 N	24.40 E	541,895.67	2,107,665.40	0.77	3,184.52	
6,577.00	88.86	0.76	0.98	1,933.37	3,558.37	3,278.61 N	25.67 E	541,989.62	2,107,666.67	1.05	3,278.48	
6,672.00	88.74	0.41	0.63	1,935.36	3,560.36	3,373.59 N	26.64 E	542,084.59	2,107,667.64	0.39	3,373.45	
6,767.00	88.49	359.92	360.14	1,937.66	3,562.66	3,468.56 N	26.92 E	542,179.56	2,107,667.92	0.58	3,468.41	
6,862.00	88.86	359.06	359.28	1,939.86	3,564.86	3,563.53 N	26.07 E	542,274.53	2,107,667.07	0.99	3,563.35	
6,957.00	90.06	358.14	358.36	1,940.75	3,565.75	3,658.49 N	23.75 E	542,369.50	2,107,664.75	1.59	3,658.25	
7,052.00	90.09	359.08	359.30	1,940.63	3,565.63	3,753.46 N	21.45 E	542,464.47	2,107,662.45	0.99	3,753.15	
7,147.00	90.95	0.28	0.50	1,939.77	3,564.77	3,848.46 N	20.92 E	542,559.46	2,107,661.92	1.55	3,848.12	



Design Report for Siegrist 2207 #7-1H - Final Survey

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	True Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates (ft)		Map Coordinates (ft)		Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
						Northing	Easting	Northing	Easting			
7,242.00	90.34	0.94	1.16	1,938.70	3,563.70	3,943.44	N 21.93 E	542,654.45	2,107,662.93	0.95	3,943.10	
7,337.00	91.02	0.40	0.62	1,937.57	3,562.57	4,038.43	N 23.04 E	542,749.43	2,107,664.04	0.91	4,038.09	
7,431.00	91.57	1.91	2.13	1,935.44	3,560.44	4,132.38	N 24.93 E	542,843.39	2,107,665.93	1.71	4,132.07	
7,527.00	91.45	1.69	1.91	1,932.92	3,557.92	4,228.30	N 27.95 E	542,939.30	2,107,668.95	0.26	4,228.03	
7,621.00	89.66	1.96	2.18	1,932.00	3,557.00	4,322.25	N 30.94 E	543,033.25	2,107,671.94	1.93	4,322.01	
7,716.00	88.15	1.84	2.06	1,933.82	3,558.82	4,417.17	N 34.09 E	543,128.18	2,107,675.09	1.59	4,416.98	
7,811.00	87.81	1.90	2.12	1,937.17	3,562.17	4,512.07	N 37.19 E	543,223.07	2,107,678.19	0.36	4,511.92	
7,906.00	88.58	2.41	2.63	1,940.16	3,565.16	4,606.95	N 40.76 E	543,317.95	2,107,681.76	0.97	4,606.85	
7,965.00	89.75	3.08	3.30	1,941.02	3,566.02	4,665.87	N 43.58 E	543,376.88	2,107,684.58	2.29	4,665.82	End MWD @ 7965.00 MD - Siegrist 2207 #7-1H BHL Plan 4
8,015.00	89.75	3.08	3.30	1,941.24	3,566.24	4,715.80	N 46.27 E	543,426.80	2,107,687.27	0.00	4,715.79	Projection to TD @ 8015.00 MD

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates (ft)		Comment
		+N/-S	+E/-W	
3,939.00	3,571.14	643.64	18.15	Start MWD @ 3939.00 MD
7,965.00	3,566.02	4,665.87	43.58	End MWD @ 7965.00 MD
8,015.00	3,566.24	4,715.80	46.27	Projection to TD @ 8015.00 MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin (ft)		Start TVD (ft)
				+N/_S	+E/-W	
User	No Target (Freehand)	1.14	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
82.00	362.00	GYRO	NS-Gyro-MS
430.00	3,827.00	MS Surveys	MWD+SC
3,939.00	8,015.00	Run 0100	MWD+SC

Design Report for Siegrist 2207 #7-1H - Final Survey

Design Targets

Target Name	Dip	Dip	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	Angle	Dir.							
- Shape	()	()	()	(

Directional Difficulty Index

Average Dogleg over Survey:	1.88 °/100ft	Maximum Dogleg over Survey:	12.93 °/100ft at 3,606.00 ft
Net Tortousity applicable to Plans:	0.49 °/100ft	Directional Difficulty Index:	6.201

Audit Info

North Reference Sheet for Sec 07-T22S-R07W (Grid) - Siegrist 2207 #7-1H - Wellbore #1

All data is in Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to WELL @ 1625.00ft (Nabors 180 (23')). Northing and Easting are relative to Siegrist 2207 #7-1H

Coordinate System is US State Plane 1927 (Exact solution), Kansas South 1502 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is 98° 30' 0.000 W°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:37° 16' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99994381

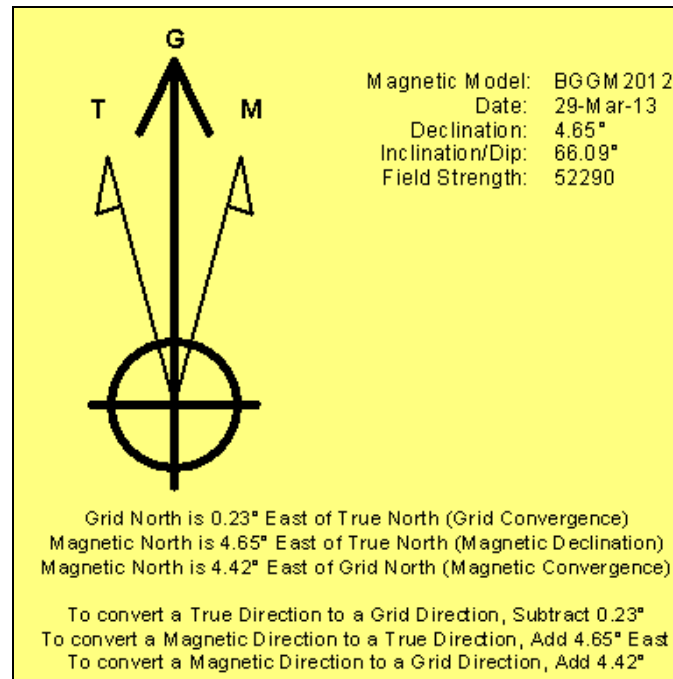
Grid Coordinates of Well: 538,711.01 ft N, 2,107,641.00 ft E

Geographical Coordinates of Well: 38° 08' 44.06" N, 098° 07' 32.54" W

Grid Convergence at Surface is: 0.23°

Based upon Minimum Curvature type calculations, at a Measured Depth of 8,015.00ft the Bottom Hole Displacement is 4,716.03ft in the Direction of 0.56° (Grid).

Magnetic Convergence at surface is: -4.42° (29 March 2013, , BGGM2012)



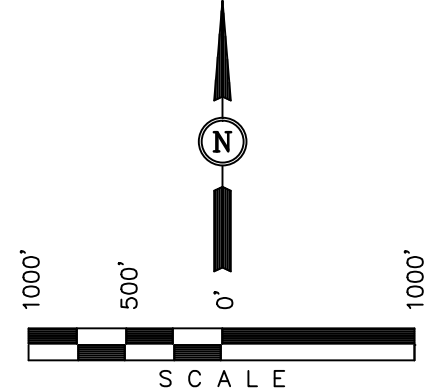
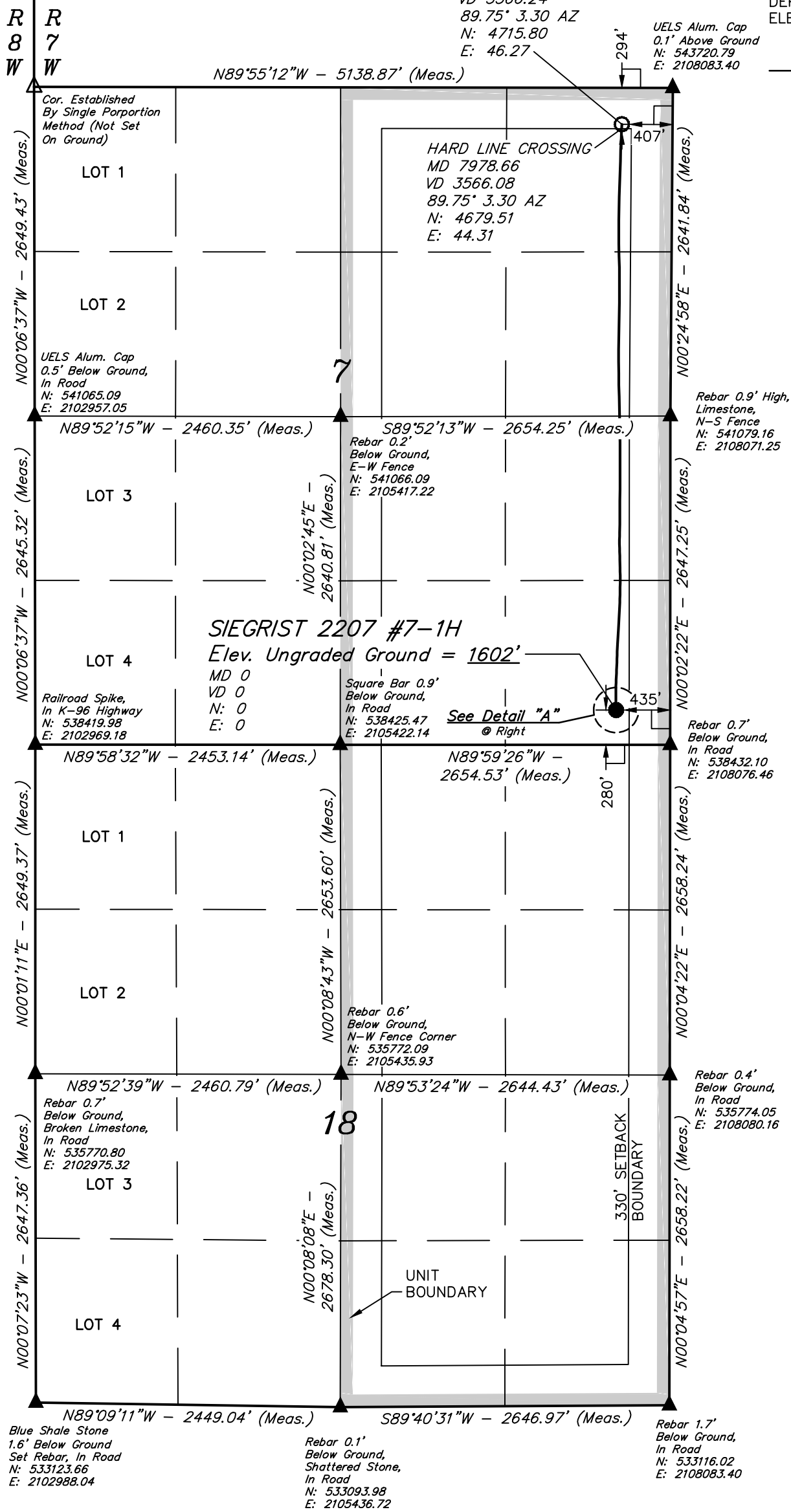
Well location, SIEGRIST 2207 #7-1H, located as shown in the SE 1/4 SE 1/4 of SECTION 7, T22S, R7W, 6th P.M., Reno County, Kansas.

BASIS OF ELEVATION

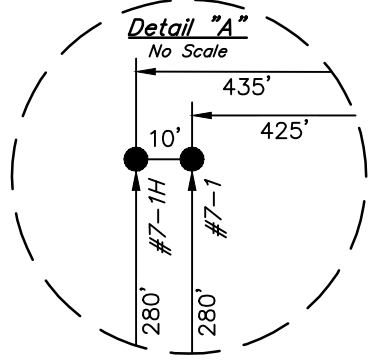
SPOT ELEVATION LOCATED AT THE SW CORNER OF SECTION 18, T23S, R8W, 6th P.M. TAKEN FROM THE ALDEN SE, QUADRANGLE, KANSAS, RENO COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY, SAID ELEVATION IS MARKED AS BEING 1688 FEET.

BASIS OF BEARINGS

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



- LEGEND:**
- └─┘ = 90° SYMBOL
 - = PROPOSED WELL HEAD.
 - ▲ = SECTION CORNERS LOCATED.
 - △ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)



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.

Justin S. ...
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 1451
 STATE OF KANSAS

UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 04-24-13	DATE DRAWN: 04-25-13
PARTY J.P. C.B. C.A.G.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE SGOMI	

NAD 83 (#7-1H AS-DRILLED BOTTOM HOLE) LATITUDE = 38°09'30.72" (38.158533) LONGITUDE = 98°07'33.09" (98.125858)	NAD 83 (#7-1H SURFACE LOCATION) LATITUDE = 38°08'44.10" (38.145583) LONGITUDE = 98°07'33.75" (98.126042)
NAD 27 (#7-1H AS-DRILLED BOTTOM HOLE) LATITUDE = 38°09'30.68" (38.158522) LONGITUDE = 98°07'31.88" (98.125522)	NAD 27 (#7-1H SURFACE LOCATION) LATITUDE = 38°08'44.06" (38.145572) LONGITUDE = 98°07'32.54" (98.125706)
STATE PLANE NAD 27 (KANSAS SOUTH) N: 543426.59 E: 2107674.73	STATE PLANE NAD 27 (KANSAS SOUTH) N: 538711.01 E: 2107641.00

Summary of Changes

Lease Name and Number: Siegrist 2207 7-1H

API/Permit #: 15-155-21624-01-00

Doc ID: 1136499

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Amount of Surface Pipe Set and Cemented at	0	369
Approved Date	01/09/2013	05/21/2013
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

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Completion Or Recompletion Date	12/29/2012	05/13/2013
Date Reached TD	12/29/2012	04/06/2013
Electric Log Run?	No	Yes
Electric Log Submitted Electronically?		Yes
Elogs_PDF		Triple Combo
Formation Top Source - Log	No	Yes
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
Producing Formation	CONDUCTOR ONLY	Mississippi

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Production Interval #1		4616'
Production Interval #2		7854'
Purchaser's Name	CONDUCTOR ONLY	
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1107260	../../../../kcc/detail/operatorEditDetail.cfm?docID=1136499
Spud Or Recompletion Date	12/22/2012	03/26/2013
TopsDepth1		3355
TopsDepth2		3468
TopsDepth3		3583
TopsDepth4		3727
TopsName1	CONDUCTOR ONLY	Hushpuckney
TopsName2		Marmaton
TopsName3		Cherokee
TopsName4		Mississippi

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Total Depth	60	8020
Tubing Packer At		N/A
Tubing Record - Set At		2875
Tubing Size		2.875

Summary of Attachments

Lease Name and Number: Siegrist 2207 7-1H

API: 15-155-21624-01-00

Doc ID: 1136499

Correction Number: 1

Attachment Name

SIEGRIST 2207 #7-1H Conductor record

SIEGRIST 2207 #7-1H Surface cement rpt

SIEGRIST 2207 #7-1H Inter cement rpt

SIEGRIST 2207 #7-1H Liner cement rpt

Siegrist 2207 #7-1H Final Survey

SIEGRIST 2207 #7-1H-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
--	---

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
---	--	------------------------------------

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)	SIEGRIST 2207-7	
PETE MARTIN DRILLING (34645) (SET THE CONDUCTOR)	1-H Conductor	1-H Mouse Hole
Call in DATE OF SPUD	12/21/2012	
spud in date	12/22/2012	12/29/2012
T.D date	12/29/2012	1/2/2013
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'	78'
Type of Cement	Type 1/2 portland cement	Type 1/2 portland cement
Cubic yards of cement	7cyd	5cyd
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 15-155-21624-01-00
Siegrist 2207 7-1H
SE/4 Sec.07-22S-07W
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