



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1085970
OIL & GAS CONSERVATION DIVISION

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 # _____

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: _____

1085970

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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> _____	PRODUCTION INTERVAL: _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	Shell Gulf of Mexico Inc.
Well Name	SCHROCK 3510 12-1H
Doc ID	1085970

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
	P-Sleeve Packer @5409'	Frac w/126,978# Proppant	5581'
	P-Sleeve Packer @5794'	No Frac	6007'
	P-Sleeve Packer @6179'	No Frac	6353'
	P-Sleeve Packer @6564'	Frac w/100,965# Proppant	6736'
	P-Sleeve Packer @6949'	Frac w/99,236# Proppant	7159'
	P-Sleeve Packer @7372'	Frac w/106,083# Proppant	7584'
	P-Sleeve Packer @7797'	Frac w/102,964# Proppant	8009'
	P-Sleeve Packer @8179'	Frac w/97,045# Proppant	8391'
	P-Sleeve Packer @8563'	Frac w/13,066# Proppant	8732'
	P-Sleeve Packer @8946'	Frac w/84,943# Proppant	9159'

Shell Exploration & Production Co. Inc.

Barber Co. (NAD-27)

Sec 12-T35S-R10W

Schrock 3510 #12-1H / Job # 8485875/ Nab 180

API #15-007-

Wellbore #1

Design: Wellbore #1

Sperry Drilling Services

Combo Report With Grid North & True North

28 February, 2012

Surface UWI : API #15-007-

Well Coordinates: 126,004.66 N, 2,040,221.23 E (37° 00' 45.49" N, 098° 21' 44.14" W)

Ground Level: 1,307.00 ft

Local Coordinate Origin:

Centered on Well Schrock 3510 #12-1H / Job # 8485875/ Nab 180

Viewing Datum:

Well @ 1329.00ft

TVDs to System:

N

North Reference:

True

Unit System:

API-US New

Version: 2003.21 Build: 43

HALLIBURTON

Design Report for Schrock 3510 #12-1H / Job # 8485875/ Nab 180 - Wellbore #1

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	359.92	0.00	-1,329.00	0.00	0.00 N	0.00 E	126,004.66	2,040,221.23	0.00	0.00	
111.00	0.00	229.34	229.42	-1,218.00	111.00	0.00 N	0.00 E	126,004.66	2,040,221.23	0.00	0.00	First MWD Surveys
143.00	0.37	170.66	170.74	-1,186.00	143.00	0.10 S	0.02 E	126,004.56	2,040,221.25	1.16	0.03	
173.00	0.22	130.85	130.93	-1,156.00	173.00	0.24 S	0.08 E	126,004.42	2,040,221.31	0.82	0.03	
235.00	1.64	229.87	229.95	-1,094.01	234.99	0.88 S	0.51 W	126,003.78	2,040,220.72	2.72	0.83	
297.00	1.96	252.10	252.18	-1,032.04	296.96	1.78 S	2.20 W	126,002.88	2,040,219.03	1.23	2.74	
358.00	2.62	255.93	256.01	-971.09	357.91	2.44 S	4.55 W	126,002.22	2,040,216.69	1.11	5.15	
420.00	3.59	263.54	263.62	-909.18	419.82	2.99 S	7.85 W	126,001.65	2,040,213.38	1.70	8.39	
481.00	3.99	275.36	275.44	-848.31	480.69	3.01 S	11.86 W	126,001.64	2,040,209.37	1.44	12.06	
579.00	3.01	280.26	280.34	-750.50	578.50	2.22 S	17.79 W	126,002.41	2,040,203.44	1.04	17.16	
672.00	1.55	280.38	280.46	-657.57	671.43	1.55 S	21.43 W	126,003.07	2,040,199.80	1.57	20.21	
747.00	0.80	213.63	213.71	-582.59	746.41	1.80 S	22.72 W	126,002.82	2,040,198.52	1.92	21.49	
897.00	0.64	186.55	186.63	-432.60	896.40	3.51 S	23.39 W	126,001.12	2,040,197.84	0.25	22.80	
992.00	0.57	186.23	186.31	-337.60	991.40	4.50 S	23.51 W	126,000.12	2,040,197.73	0.07	23.31	
1,086.00	0.72	196.51	196.59	-243.61	1,085.39	5.54 S	23.73 W	125,999.09	2,040,197.51	0.20	23.93	
1,181.00	0.46	179.93	180.01	-148.61	1,180.39	6.49 S	23.90 W	125,998.14	2,040,197.34	0.32	24.47	
1,276.00	0.46	178.16	178.24	-53.62	1,275.38	7.25 S	23.89 W	125,997.37	2,040,197.35	0.01	24.77	
1,371.00	0.36	181.46	181.54	41.38	1,370.38	7.93 S	23.88 W	125,996.69	2,040,197.36	0.11	25.04	
1,466.00	0.41	178.46	178.54	136.38	1,465.38	8.57 S	23.88 W	125,996.06	2,040,197.36	0.06	25.30	
1,561.00	0.63	187.66	187.74	231.38	1,560.38	9.43 S	23.94 W	125,995.20	2,040,197.30	0.25	25.71	
1,656.00	0.53	197.14	197.22	326.37	1,655.37	10.36 S	24.14 W	125,994.26	2,040,197.10	0.15	26.27	
1,751.00	0.26	210.91	210.99	421.37	1,750.37	10.97 S	24.38 W	125,993.66	2,040,196.86	0.30	26.74	
1,846.00	0.44	212.61	212.69	516.37	1,845.37	11.46 S	24.69 W	125,993.16	2,040,196.55	0.19	27.22	
1,941.00	0.10	186.67	186.75	611.37	1,940.37	11.85 S	24.90 W	125,992.77	2,040,196.35	0.37	27.57	
2,035.00	0.13	3.69	3.77	705.36	2,034.36	11.82 S	24.90 W	125,992.80	2,040,196.35	0.24	27.56	
2,130.00	0.09	341.56	341.64	800.36	2,129.36	11.65 S	24.92 W	125,992.98	2,040,196.33	0.06	27.50	
2,225.00	0.06	75.17	75.25	895.36	2,224.36	11.56 S	24.89 W	125,993.06	2,040,196.35	0.12	27.44	
2,320.00	0.27	105.03	105.11	990.36	2,319.36	11.61 S	24.63 W	125,993.02	2,040,196.62	0.23	27.22	
2,415.00	0.22	66.23	66.31	1,085.36	2,414.36	11.59 S	24.25 W	125,993.03	2,040,197.00	0.18	26.87	
2,510.00	0.06	49.48	49.56	1,180.36	2,509.36	11.49 S	24.04 W	125,993.14	2,040,197.21	0.17	26.64	
2,605.00	0.25	24.79	24.87	1,275.36	2,604.36	11.27 S	23.92 W	125,993.36	2,040,197.33	0.21	26.43	
2,700.00	0.11	347.69	347.77	1,370.36	2,699.36	10.99 S	23.85 W	125,993.63	2,040,197.40	0.18	26.26	
2,795.00	0.19	341.89	341.97	1,465.36	2,794.36	10.75 S	23.92 W	125,993.87	2,040,197.33	0.09	26.22	
2,890.00	0.07	133.64	133.72	1,560.36	2,889.36	10.64 S	23.92 W	125,993.98	2,040,197.32	0.27	26.18	
2,984.00	0.31	326.77	326.85	1,654.36	2,983.36	10.47 S	24.02 W	125,994.16	2,040,197.22	0.40	26.20	
3,079.00	0.31	341.88	341.96	1,749.36	3,078.36	10.01 S	24.24 W	125,994.62	2,040,197.00	0.09	26.22	
3,174.00	0.38	29.10	29.18	1,844.36	3,173.36	9.49 S	24.17 W	125,995.13	2,040,197.08	0.30	25.94	

Design Report for Schrock 3510 #12-1H / Job # 8485875/ Nab 180 - Wellbore #1

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			
3,269.00	0.10	7.12	7.20	1,939.36	3,268.36	9.13 S	24.00 W	125,995.49	2,040,197.24	0.30	25.64	
3,364.00	0.37	12.10	12.18	2,034.36	3,363.36	8.75 S	23.93 W	125,995.87	2,040,197.31	0.28	25.42	
3,459.00	0.34	5.82	5.90	2,129.35	3,458.35	8.17 S	23.83 W	125,996.46	2,040,197.41	0.05	25.10	
3,552.00	0.64	44.95	45.03	2,222.35	3,551.35	7.53 S	23.44 W	125,997.10	2,040,197.80	0.47	24.48	
3,647.00	0.38	41.90	41.98	2,317.35	3,646.35	6.92 S	22.85 W	125,997.71	2,040,198.39	0.28	23.69	
3,742.00	0.42	26.76	26.84	2,412.35	3,741.35	6.37 S	22.48 W	125,998.25	2,040,198.75	0.12	23.13	
3,837.00	0.20	359.38	359.46	2,507.34	3,836.34	5.90 S	22.33 W	125,998.73	2,040,198.91	0.27	22.80	
3,932.00	0.47	94.51	94.59	2,602.34	3,931.34	5.76 S	21.94 W	125,998.86	2,040,199.30	0.55	22.39	
4,016.00	3.06	149.36	149.44	2,686.30	4,015.30	7.72 S	20.46 W	125,996.91	2,040,200.78	3.35	21.83	
4,047.00	7.39	171.32	171.40	2,717.16	4,046.16	10.41 S	19.74 W	125,994.22	2,040,201.51	15.14	22.27	
4,079.00	11.27	172.20	172.28	2,748.74	4,077.74	15.54 S	19.01 W	125,989.09	2,040,202.24	12.13	23.69	
4,111.00	13.35	173.80	173.88	2,780.00	4,109.00	22.31 S	18.20 W	125,982.32	2,040,203.07	6.59	25.70	
4,142.00	16.34	173.37	173.45	2,809.96	4,138.96	30.21 S	17.32 W	125,974.43	2,040,203.96	9.65	28.10	
4,174.00	20.11	175.10	175.18	2,840.35	4,169.35	40.16 S	16.34 W	125,964.47	2,040,204.95	11.90	31.26	
4,205.00	22.17	175.57	175.65	2,869.26	4,198.26	51.31 S	15.45 W	125,953.33	2,040,205.86	6.67	34.97	
4,237.00	25.41	177.50	177.58	2,898.54	4,227.54	64.19 S	14.70 W	125,940.45	2,040,206.62	10.41	39.52	
4,269.00	27.06	182.87	182.95	2,927.25	4,256.25	78.32 S	14.79 W	125,926.31	2,040,206.56	9.03	45.34	
4,300.00	29.41	186.62	186.70	2,954.56	4,283.56	92.93 S	16.04 W	125,911.71	2,040,205.33	9.50	52.42	
4,332.00	30.90	190.45	190.53	2,982.23	4,311.23	108.81 S	18.46 W	125,895.82	2,040,202.93	7.60	61.09	
4,363.00	31.26	191.65	191.73	3,008.78	4,337.78	124.51 S	21.55 W	125,880.12	2,040,199.87	2.31	70.29	
4,395.00	31.04	186.85	186.93	3,036.17	4,365.17	140.84 S	24.23 W	125,863.79	2,040,197.21	7.79	79.38	
4,427.00	31.39	186.67	186.75	3,063.54	4,392.54	157.30 S	26.21 W	125,847.32	2,040,195.26	1.13	87.87	
4,458.00	31.95	183.47	183.55	3,089.92	4,418.92	173.51 S	27.66 W	125,831.11	2,040,193.82	5.71	95.79	
4,490.00	34.79	184.03	184.11	3,116.64	4,445.64	191.07 S	28.84 W	125,813.55	2,040,192.67	8.93	104.01	
4,522.00	38.20	181.59	181.67	3,142.37	4,471.37	210.07 S	29.78 W	125,794.55	2,040,191.76	11.58	112.59	
4,553.00	40.72	181.92	182.00	3,166.30	4,495.30	229.76 S	30.42 W	125,774.86	2,040,191.15	8.16	121.17	
4,585.00	43.85	183.77	183.85	3,189.97	4,518.97	251.26 S	31.53 W	125,753.36	2,040,190.08	10.53	130.92	
4,616.00	45.85	181.71	181.79	3,211.95	4,540.95	273.09 S	32.59 W	125,731.52	2,040,189.04	7.97	140.77	
4,648.00	48.46	182.22	182.30	3,233.71	4,562.71	296.53 S	33.43 W	125,708.08	2,040,188.23	8.24	151.07	
4,679.00	50.79	181.81	181.89	3,253.79	4,582.79	320.13 S	34.30 W	125,684.48	2,040,187.41	7.58	161.44	
4,711.00	53.97	182.26	182.34	3,273.32	4,602.32	345.46 S	35.23 W	125,659.15	2,040,186.51	10.00	172.59	
4,743.00	55.80	183.01	183.09	3,291.72	4,620.72	371.60 S	36.47 W	125,633.00	2,040,185.30	6.03	184.35	
4,774.00	59.12	184.40	184.48	3,308.40	4,637.40	397.68 S	38.21 W	125,606.93	2,040,183.61	11.36	196.53	
4,806.00	59.94	184.87	184.95	3,324.62	4,653.62	425.16 S	40.47 W	125,579.44	2,040,181.39	2.86	209.77	
4,838.00	60.33	184.73	184.81	3,340.56	4,669.56	452.81 S	42.83 W	125,551.79	2,040,179.07	1.28	223.17	
4,901.00	60.76	184.58	184.66	3,371.54	4,700.54	507.48 S	47.36 W	125,497.11	2,040,174.62	0.71	249.52	
4,932.00	62.35	184.93	185.01	3,386.30	4,715.30	534.64 S	49.66 W	125,469.95	2,040,172.36	5.22	262.66	

Design Report for Schrock 3510 #12-1H / Job # 8485875/ Nab 180 - Wellbore #1

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			
4,964.00	64.76	184.66	184.74	3,400.55	4,729.55	563.19 S	52.09 W	125,441.40	2,040,169.97	7.57	276.49	
4,995.00	67.03	184.62	184.70	3,413.21	4,742.21	591.39 S	54.42 W	125,413.20	2,040,167.68	7.32	290.08	
5,027.00	68.82	184.36	184.44	3,425.24	4,754.24	620.94 S	56.78 W	125,383.63	2,040,165.36	5.64	304.25	
5,045.25	69.86	184.63	184.72	3,431.68	4,760.68	637.97 S	58.15 W	125,366.61	2,040,164.03	5.89	312.41	Top of Miss 4773' TVD (1426' FSL, 828' FWL)
5,059.00	70.65	184.84	184.92	3,436.32	4,765.32	650.86 S	59.23 W	125,353.71	2,040,162.96	5.89	318.64	
5,090.00	73.03	183.30	183.38	3,445.98	4,774.98	680.24 S	61.36 W	125,324.33	2,040,160.87	9.01	332.53	
5,122.00	75.59	181.76	181.84	3,454.64	4,783.64	711.01 S	62.76 W	125,293.56	2,040,159.52	9.24	346.31	
5,154.00	76.55	181.24	181.32	3,462.34	4,791.34	742.06 S	63.62 W	125,262.51	2,040,158.71	3.39	359.71	
5,185.00	77.98	180.60	180.68	3,469.17	4,798.17	772.29 S	64.15 W	125,232.28	2,040,158.23	5.03	372.48	
5,217.00	80.60	180.92	181.00	3,475.12	4,804.12	803.72 S	64.61 W	125,200.84	2,040,157.81	8.25	385.68	
5,248.00	84.10	180.11	180.19	3,479.25	4,808.25	834.44 S	64.93 W	125,170.12	2,040,157.54	11.58	398.46	
5,280.00	86.62	180.55	180.63	3,481.84	4,810.84	866.33 S	65.15 W	125,138.23	2,040,157.36	7.99	411.63	
5,312.00	87.72	180.07	180.15	3,483.42	4,812.42	898.29 S	65.37 W	125,106.27	2,040,157.19	3.75	424.81	
5,385.00	90.46	182.27	182.35	3,484.57	4,813.57	971.26 S	66.96 W	125,033.31	2,040,155.70	4.81	455.92	
5,417.00	90.80	181.78	181.86	3,484.22	4,813.22	1,003.23 S	68.14 W	125,001.33	2,040,154.57	1.86	469.99	
5,448.00	90.99	181.49	181.57	3,483.74	4,812.74	1,034.21 S	69.07 W	124,970.35	2,040,153.69	1.12	483.43	
5,480.00	89.51	181.20	181.28	3,483.60	4,812.60	1,066.20 S	69.86 W	124,938.36	2,040,152.94	4.71	497.16	
5,512.00	88.15	181.51	181.59	3,484.25	4,813.25	1,098.19 S	70.66 W	124,906.37	2,040,152.19	4.36	510.89	
5,543.00	88.03	181.27	181.35	3,485.29	4,814.29	1,129.16 S	71.46 W	124,875.40	2,040,151.44	0.87	524.20	
5,638.00	88.58	182.17	182.25	3,488.10	4,817.10	1,224.07 S	74.44 W	124,780.49	2,040,148.60	1.11	565.50	
5,733.00	89.32	183.79	183.87	3,489.84	4,818.84	1,318.91 S	79.51 W	124,685.63	2,040,143.67	1.87	608.68	
5,828.00	90.83	183.33	183.41	3,489.71	4,818.71	1,413.72 S	85.54 W	124,590.82	2,040,137.78	1.66	652.72	
5,922.00	90.09	182.07	182.15	3,488.96	4,817.96	1,507.60 S	90.10 W	124,496.93	2,040,133.36	1.55	695.04	
6,018.00	90.06	181.96	182.04	3,488.83	4,817.83	1,603.54 S	93.61 W	124,400.99	2,040,129.99	0.12	737.24	
6,113.00	88.98	181.14	181.22	3,489.63	4,818.63	1,698.49 S	96.31 W	124,306.03	2,040,127.43	1.43	778.30	
6,207.00	89.48	179.96	180.04	3,490.89	4,819.89	1,792.48 S	97.35 W	124,212.04	2,040,126.53	1.36	817.44	
6,302.00	90.40	179.96	180.04	3,490.99	4,819.99	1,887.48 S	97.41 W	124,117.05	2,040,126.61	0.97	856.11	
6,397.00	91.60	179.71	179.79	3,489.33	4,818.33	1,982.46 S	97.27 W	124,022.06	2,040,126.89	1.29	894.59	
6,492.00	89.11	180.17	180.25	3,488.74	4,817.74	2,077.45 S	97.31 W	123,927.07	2,040,126.99	2.67	933.22	
6,587.00	89.11	180.84	180.92	3,490.22	4,819.22	2,172.43 S	98.28 W	123,832.09	2,040,126.16	0.71	972.71	
6,681.00	89.35	181.87	181.95	3,491.48	4,820.48	2,266.39 S	100.63 W	123,738.12	2,040,123.95	1.13	1,013.05	
6,764.00	90.28	180.95	181.03	3,491.75	4,820.75	2,349.36 S	102.79 W	123,655.15	2,040,121.91	1.58	1,048.74	
6,858.00	89.78	183.65	183.73	3,491.70	4,820.70	2,443.27 S	106.69 W	123,561.24	2,040,118.15	2.92	1,090.48	
6,953.00	90.83	182.55	182.63	3,491.20	4,820.20	2,538.12 S	111.96 W	123,466.38	2,040,113.02	1.60	1,133.84	
7,048.00	91.20	183.47	183.55	3,489.51	4,818.51	2,632.97 S	117.08 W	123,371.53	2,040,108.04	1.04	1,177.07	
7,143.00	90.28	183.93	184.01	3,488.29	4,817.29	2,727.75 S	123.34 W	123,276.73	2,040,101.92	1.08	1,221.31	

Design Report for Schrock 3510 #12-1H / Job # 8485875/ Nab 180 - Wellbore #1

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			
7,238.00	88.52	185.67	185.75	3,489.28	4,818.28	2,822.40 S	131.42 W	123,182.08	2,040,093.98	2.61	1,267.16	
7,333.00	86.64	187.18	187.26	3,493.29	4,822.29	2,916.69 S	142.17 W	123,087.76	2,040,083.37	2.54	1,315.30	
7,427.00	87.50	186.07	186.15	3,498.10	4,827.10	3,009.93 S	153.13 W	122,994.52	2,040,072.54	1.49	1,363.21	
7,525.00	88.46	185.40	185.48	3,501.55	4,830.55	3,107.36 S	163.06 W	122,897.07	2,040,062.76	1.19	1,411.88	
7,618.00	87.53	186.35	186.43	3,504.81	4,833.81	3,199.80 S	172.70 W	122,804.61	2,040,053.26	1.43	1,458.25	
7,713.00	88.09	186.51	186.59	3,508.44	4,837.44	3,294.12 S	183.46 W	122,710.28	2,040,042.64	0.61	1,506.42	
7,808.00	88.68	186.84	186.92	3,511.11	4,840.11	3,388.42 S	194.63 W	122,615.96	2,040,031.60	0.71	1,554.95	
7,903.00	86.11	185.67	185.75	3,515.43	4,844.43	3,482.73 S	205.10 W	122,521.63	2,040,021.27	2.97	1,602.85	
7,998.00	86.45	182.69	182.77	3,521.60	4,850.60	3,577.26 S	212.14 W	122,427.10	2,040,014.37	3.15	1,647.70	
8,093.00	88.12	180.66	180.74	3,526.10	4,855.10	3,672.10 S	215.05 W	122,332.25	2,040,011.61	2.77	1,688.90	
8,188.00	90.68	181.39	181.47	3,527.09	4,856.09	3,767.07 S	216.88 W	122,237.28	2,040,009.92	2.80	1,729.17	
8,283.00	91.73	181.29	181.37	3,525.09	4,854.09	3,862.02 S	219.23 W	122,142.33	2,040,007.70	1.11	1,769.91	
8,377.00	90.00	182.32	182.40	3,523.67	4,852.67	3,955.95 S	222.33 W	122,048.39	2,040,004.75	2.14	1,810.91	
8,472.00	92.03	182.39	182.47	3,521.99	4,850.99	4,050.85 S	226.36 W	121,953.49	2,040,000.85	2.14	1,853.17	
8,567.00	89.54	183.11	183.19	3,520.69	4,849.69	4,145.71 S	231.05 W	121,858.62	2,039,996.30	2.73	1,896.01	
8,662.00	90.62	182.22	182.30	3,520.56	4,849.56	4,240.60 S	235.60 W	121,763.72	2,039,991.90	1.47	1,938.73	
8,757.00	89.72	183.33	183.41	3,520.28	4,849.28	4,335.48 S	240.33 W	121,668.84	2,039,987.30	1.50	1,981.61	
8,852.00	90.86	180.95	181.03	3,519.79	4,848.79	4,430.40 S	244.01 W	121,573.91	2,039,983.76	2.78	2,023.55	
8,946.00	89.60	180.88	180.96	3,519.42	4,848.42	4,524.38 S	245.64 W	121,479.93	2,039,982.27	1.34	2,063.24	
9,041.00	89.63	179.43	179.51	3,520.06	4,849.06	4,619.38 S	246.03 W	121,384.93	2,039,982.02	1.53	2,102.20	
9,136.00	89.82	178.72	178.80	3,520.51	4,849.51	4,714.37 S	244.63 W	121,289.95	2,039,983.56	0.77	2,139.53	
9,231.00	90.65	178.27	178.35	3,520.12	4,849.12	4,809.33 S	242.27 W	121,194.98	2,039,986.07	0.99	2,175.97	
9,277.00	91.23	178.34	178.42	3,519.37	4,848.37	4,855.31 S	240.97 W	121,149.01	2,039,987.43	1.27	2,193.47	Last MWD Survey
9,325.14	91.47	178.50	178.58	3,518.23	4,847.23	4,903.42 S	239.71 W	121,100.90	2,039,988.76	0.60	2,211.87	PBHL Schrock 3510 #12-1H / 335' FSL 600' FWL
9,331.00	91.50	178.52	178.60	3,518.08	4,847.08	4,909.28 S	239.57 W	121,095.05	2,039,988.91	0.60	2,214.12	Projection to TD

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
111.00	111.00	0.00	0.00	First MWD Surveys
9,277.00	4,848.37	-4,855.31	-240.97	Last MWD Survey
9,331.00	4,847.08	-4,909.28	-239.57	Projection to TD

Design Report for Schrock 3510 #12-1H / Job # 8485875/ Nab 180 - Wellbore #1

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (ft)	Origin +E/-W (ft)	Start TVD (ft)
User	No Target (Freehand)	246.02	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
111.00	9,331.00	MWD	MWD+SC

Design Targets

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

Directional Difficulty Index

Average Dogleg over Survey:	1.98 °/100ft	Maximum Dogleg over Survey:	15.14 °/100ft at 4,047.00 ft
Net Tortousity applicable to Plans:	0.95 °/100ft	Directional Difficulty Index:	6.245

Audit Info

North Reference Sheet for Sec 12-T35S-R10W - Schrock 3510 #12-1H / Job # 8485875/ Nab 180 - Wellbore #1

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

Vertical Depths are relative to Well @ 1329.00ft. Northing and Easting are relative to Schrock 3510 #12-1H / Job # 8485875/ Nab 180

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: 1.00005963

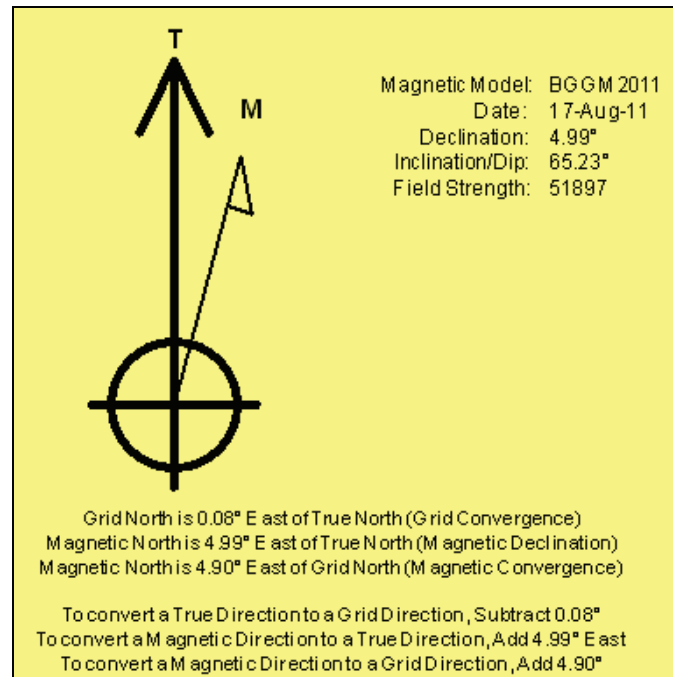
Grid Coordinates of Well: 126,004.66 ft N, 2,040,221.23 ft E

Geographical Coordinates of Well: 37° 00' 45.49" N, 098° 21' 44.14" W

Grid Convergence at Surface is: 0.08°

Based upon Minimum Curvature type calculations, at a Measured Depth of 9,331.00ft the Bottom Hole Displacement is 4,915.12ft in the Direction of 182.79° (True).

Magnetic Convergence at surface is: -4.90° (17 August 2011, , BGGM2011)



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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 03, 2012

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

Re: ACO1
API 15-007-23770-01-00
SCHROCK 3510 12-1H
SW/4 Sec.12-35S-10W
Barber 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