



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1088487  
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
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API No. 15 - \_\_\_\_\_

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

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

Datum:  NAD27     NAD83     WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

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

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

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

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

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

1088487

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Shell Gulf of Mexico Inc.
Well Name	ALBRIGHT CROFT 3407 15-1H
Doc ID	1088487

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
1	P-Sleeve	9030 gals fluid, 130939# Prop	5715
1	P-Sleeve	9282 gals fluid, 92692# Prop	6136
1	P-Sleeve	9534 gals fluid, 97936# Prop	6518
1	P-Sleeve	9870 gals fluid, 102401# Prop	6855
1	P-Sleeve	9954 gals fluid, 101681# Prop	7192
1	P-Sleeve	10332 gals fluid, 18896# Prop	7527
1	P-Sleeve	10542 gals fluid, 101689# Prop	7863
1	P-Sleeve	10752 gals fluid, 98012# Prop	8208
1	P-Sleeve	11004 gals fluid, 93629# Prop	8552
1	P-Sleeve	11214 gals fluid, 98922# Prop	8888

# CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 20-FEB-12	F.R. # 1001889459	SERV. SUPV. JUSTIN D STAMPER
LEASE & WELL NAME CROFT ALBRIGHT 3407 #15-1H - API 150772178701	LOCATION 15-34S-7W		COUNTY-PARISH-BLOCK Harper Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG # NABORS #774		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, Ph	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
water			8.34				20
C+2%CACL2+.25#CELLOFLAKE		500	14.8	1.35	6.34	02:45	119.89
Water			8.34				60
Available Mix Water <u>1000</u> Bbl.		Available Displ. Fluid <u>1000</u> Bbl.		TOTAL			199.89

HOLE			TBG-CSG-D.P.					COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
12.25		825	8.921	9.625	36	CSG	820	820	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.
17.	18	84		60	60					9.625	8RD	WATER BASED ML	8.8

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	FRAC TANK
60	BBLS	Water	8.34	300					3160	1500	FRAC TANK

**EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: ARRIVE ON LOCATION, RIG UP, AND WAIT ON CASING**

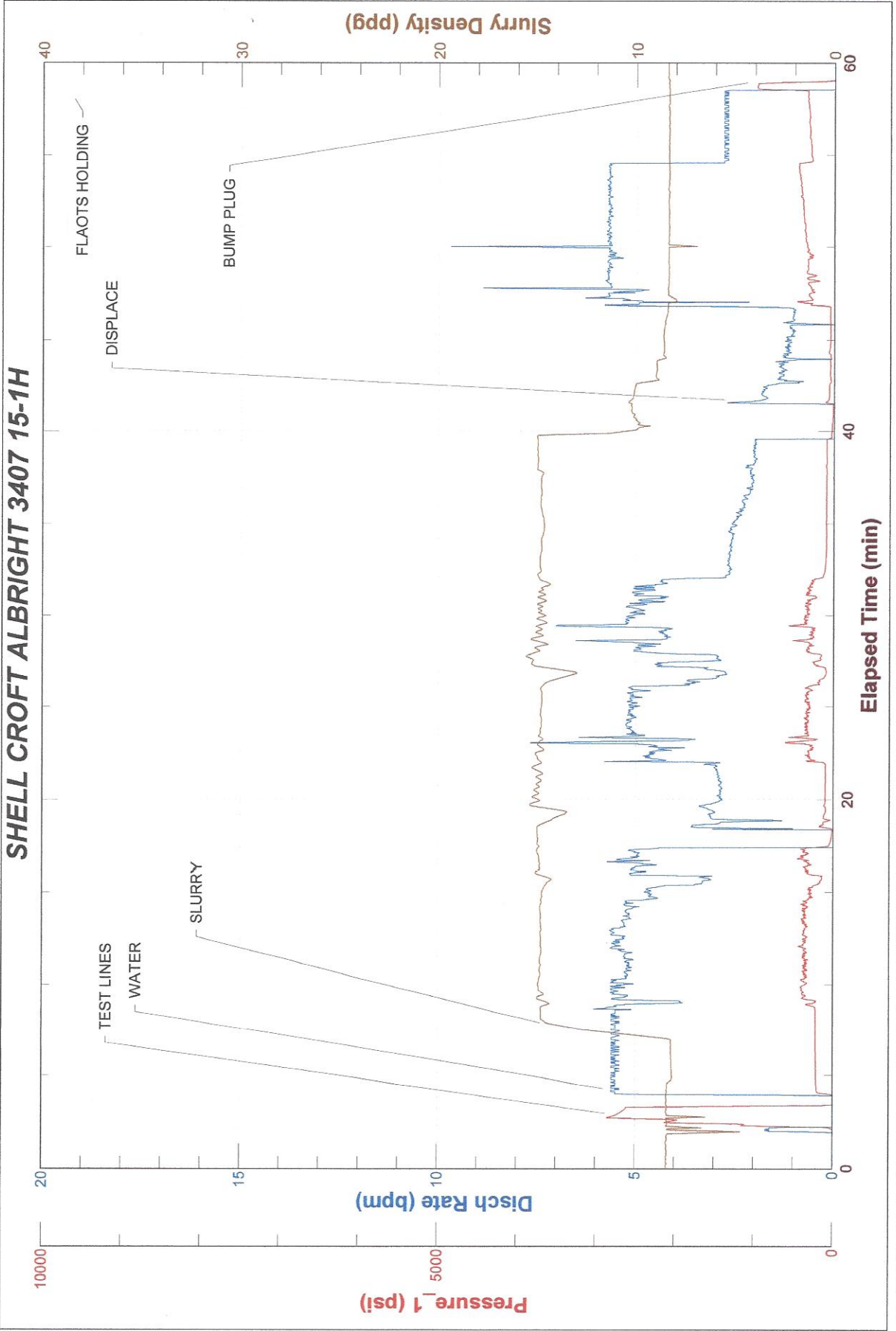
PRESSURE/RATE DETAIL						EXPLANATION					
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>					
	PIPE	ANNULUS				TEST LINES 3000 PSI					
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>					
15:30						ARRIVE ON LOCATION					
11:00						SAFETY MEETING					
11:30	2800				WATER	TEST LINES, START WATER AHEAD					
11:36	200		5	26	WATER	FINISH WATER, START SLURRY					
12:09	100		2	120	SLURRY	FINISH SLURRY, SHUT DOWN, DROP PLUG AND DISPLACE					
12:23	300		5	50	WATER	SLOW TO BUMP PLUG					
12:26	300		3	10	WATER	BUMP PLUG, PRESSURE TO 900 PSI					
					WATER	BLEED OFF RECIVED .25 BBLS BACK TO TRUCK					
						FLOATS HOLDING					
					CEMENT	RETURNED 60 BBLS OF CEMENT BACK TO SURFACE					
						THANK YOU FOR USING BHI					
						JUSTIN STAMPER AND CREW					

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	900	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	60	206	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	



BJ Services JobMaster Program Version 3.50  
Job Number: 1001889459  
Customer: SHELL  
Well Name: CROFT ALBRIGHT 3407 15-1H

### SHELL CROFT ALBRIGHT 3407 15-1H





# CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 27-MAR-12	F.R. # 827610003	SERV. SUPV. JUSTIN D STAMPER
LEASE & WELL NAME ALBRIGHT CROFT 3407 15-1H_PRODUCER	LOCATION		COUNTY-PARISH-BLOCK Harper Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG # NABORS #774		TYPE OF JOB Intermediate

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
7" Top Cem Plug, Nitrile cvr, Phen	Shoe PROVIDED BY CUSTOMER						

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES					
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY
MUD CLEAN			8.34				20
50:50:2(POZ,C,GEL)+5%SALT+.3%FL52+.15%SMS+2		200	14.2	1.32	5.66	03:45	46
MUD			9.6				54
Available Mix Water <u>1000</u> Bbl.		Available Displ. Fluid <u>1000</u> Bbl.		TOTAL			<u>120</u> 26.37

HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
8.75		5430	6.366	7	23	CSG	5423	4820	L-80	5423	5377	
			3.34	4	14	DP	5295		S-95			

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		800	800			4600	4600	2	1502	WATER BASED ML	9.2

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	FRAC TANK
54	BBLS	MUD	9.6	200					5072	3000	FRAC TANK

**EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: ARRIVE ON LOCATION, RIG UP, WAIT ON 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 4500 PSI		
21:00						CIRCULATING WELL - RIG <input type="checkbox"/> BJ <input type="checkbox"/>		
14:00						ARRIVE ON LOCATION		
14:46		1500		2	WATER	SAFETY MEETING		
14:54	4500	500			WATER	PRESSURE UP BACK SIDE		
15:00	370	500	2	5	WATER	PRESSURE TEST LINES		
15:25	100	500	2	46	TAIL	INJECTION TEST, START SLURRY		
15:27	60	500	2	5	WATER	FINISH TAIL, START WATER		
15:47	500	500	2	48	MUD	START MUD		
						SHUT DOWN AND PULL OUT OF RETAINER		
						PULL STANDS AND CIRCULATE WELL		
						THANK YOU FOR USING BHI		
						JUSTIN STAMPER AND CREW		

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 0	0	Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 0	0	105	0	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	



# Shell Exploration & Production Co. Inc.

Harper Co. (NAD-27)

Sec 15-T34S-R07W

Albright Farms 3407 #15-1H / Job# 9199272/ Nabors 774

Wellbore #1

Design: Wellbore #1

## Sperry Drilling Services

# Combo Report With Grid North & True North

19 April, 2012

Well Coordinates: 151,019.46 N, 2,124,510.90 E (37° 04' 50.29" N, 098° 04' 23.58" W)

Ground Level: 1,393.72 ft

Local Coordinate Origin:	Centered on Well Albright Farms 3407 #15-1H / Job# 9199272/ Nabors 774
Viewing Datum:	Well @ 1415.40ft
TVDs to System:	N
North Reference:	True
Unit System:	API-US New

Version: 2003.21 Build: 43

**HALLIBURTON**



## Design Report for Albright Farms 3407 #15-1H / Job# 9199272/ Nabors 774 - 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	359.74	0.00	-1,415.40	0.00	0.00 N	0.00 E	151,019.46	2,124,510.90	0.00	0.00	Abandoned Well
208.00	0.42	85.86	86.12	-1,207.40	208.00	0.05 N	0.76 E	151,019.51	2,124,511.66	0.20	0.04	First MWD Survey
303.00	1.27	5.06	5.32	-1,112.41	302.99	1.12 N	1.21 E	151,020.59	2,124,512.10	1.34	1.11	
334.00	1.66	357.94	358.20	-1,081.42	333.98	1.91 N	1.22 E	151,021.38	2,124,512.11	1.39	1.90	
365.00	2.49	6.55	6.81	-1,050.44	364.96	3.03 N	1.29 E	151,022.50	2,124,512.17	2.85	3.02	
395.00	3.16	355.02	355.28	-1,020.48	394.92	4.50 N	1.30 E	151,023.97	2,124,512.18	2.92	4.49	
433.00	3.75	1.42	1.68	-982.55	432.85	6.79 N	1.25 E	151,026.25	2,124,512.12	1.85	6.77	
464.00	4.24	1.88	2.14	-951.62	463.78	8.95 N	1.32 E	151,028.41	2,124,512.18	1.58	8.93	
495.00	4.70	5.31	5.57	-920.72	494.68	11.36 N	1.49 E	151,030.82	2,124,512.33	1.72	11.34	
526.00	4.77	3.15	3.41	-889.82	525.58	13.91 N	1.69 E	151,033.37	2,124,512.52	0.62	13.89	
549.00	5.15	352.77	353.03	-866.91	548.49	15.89 N	1.62 E	151,035.35	2,124,512.45	4.23	15.87	
579.00	5.48	348.64	348.90	-837.04	578.36	18.63 N	1.18 E	151,038.09	2,124,511.99	1.68	18.61	
610.00	5.54	343.85	344.11	-806.18	609.22	21.52 N	0.48 E	151,040.98	2,124,511.29	1.50	21.51	
702.00	5.16	348.88	349.14	-714.58	700.82	29.85 N	1.51 W	151,049.31	2,124,509.25	0.66	29.87	
743.00	4.36	354.86	355.12	-673.72	741.68	33.22 N	1.99 W	151,052.67	2,124,508.76	2.29	33.24	
887.00	3.79	4.17	4.43	-530.09	885.31	43.42 N	2.09 W	151,062.87	2,124,508.61	0.61	43.44	
981.00	1.58	15.22	15.48	-436.19	979.21	47.76 N	1.50 W	151,067.21	2,124,509.18	2.40	47.78	
1,076.00	0.97	80.48	80.74	-341.21	1,074.19	49.16 N	0.36 W	151,068.61	2,124,510.32	1.55	49.16	
1,170.00	0.90	73.85	74.11	-247.23	1,168.17	49.49 N	1.14 E	151,068.95	2,124,511.81	0.14	49.47	
1,265.00	0.79	62.31	62.57	-152.24	1,263.16	49.99 N	2.43 E	151,069.46	2,124,513.11	0.21	49.96	
1,359.00	0.83	63.58	63.84	-58.25	1,357.15	50.59 N	3.62 E	151,070.06	2,124,514.29	0.05	50.55	
1,454.00	0.46	95.85	96.11	36.75	1,452.15	50.85 N	4.62 E	151,070.33	2,124,515.28	0.53	50.80	
1,548.00	0.17	1.30	1.56	130.75	1,546.15	50.95 N	5.00 E	151,070.43	2,124,515.66	0.53	50.89	
1,643.00	0.46	338.89	339.15	225.75	1,641.15	51.45 N	4.87 E	151,070.93	2,124,515.53	0.33	51.39	
1,737.00	0.28	72.67	72.93	319.74	1,735.14	51.87 N	4.95 E	151,071.35	2,124,515.61	0.59	51.81	
1,832.00	0.50	353.70	353.96	414.74	1,830.14	52.35 N	5.13 E	151,071.83	2,124,515.79	0.55	52.29	
1,927.00	0.48	12.23	12.49	509.74	1,925.14	53.15 N	5.17 E	151,072.63	2,124,515.83	0.17	53.09	
2,021.00	0.33	21.56	21.82	603.74	2,019.14	53.79 N	5.36 E	151,073.27	2,124,516.01	0.17	53.72	
2,116.00	0.56	18.93	19.19	698.73	2,114.13	54.48 N	5.61 E	151,073.96	2,124,516.26	0.24	54.41	
2,210.00	0.67	14.01	14.27	792.73	2,208.13	55.45 N	5.90 E	151,074.93	2,124,516.54	0.13	55.38	
2,305.00	0.28	325.97	326.23	887.73	2,303.13	56.18 N	5.91 E	151,075.66	2,124,516.55	0.55	56.11	
2,399.00	0.34	303.76	304.02	981.72	2,397.12	56.52 N	5.55 E	151,076.01	2,124,516.19	0.14	56.46	
2,494.00	0.37	348.00	348.26	1,076.72	2,492.12	56.98 N	5.25 E	151,076.46	2,124,515.89	0.28	56.92	
2,588.00	0.33	112.12	112.38	1,170.72	2,586.12	57.18 N	5.44 E	151,076.66	2,124,516.08	0.66	57.11	
2,683.00	0.64	84.13	84.39	1,265.72	2,681.12	57.12 N	6.22 E	151,076.61	2,124,516.86	0.40	57.05	
2,778.00	0.39	131.79	132.05	1,360.71	2,776.11	56.96 N	6.99 E	151,076.45	2,124,517.63	0.50	56.88	
2,872.00	0.07	330.14	330.40	1,454.71	2,870.11	56.79 N	7.20 E	151,076.29	2,124,517.84	0.49	56.71	

**Design Report for Albright Farms 3407 #15-1H / Job# 9199272/ Nabors 774 - 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			
2,967.00	0.25	241.16	241.42	1,549.71	2,965.11	56.75 N	6.99 E	151,076.24	2,124,517.63	0.27	56.66	
3,061.00	0.31	213.71	213.97	1,643.71	3,059.11	56.44 N	6.66 E	151,075.92	2,124,517.31	0.15	56.36	
3,156.00	0.69	212.49	212.75	1,738.71	3,154.11	55.74 N	6.21 E	151,075.23	2,124,516.86	0.40	55.67	
3,250.00	0.30	156.97	157.23	1,832.71	3,248.11	55.04 N	6.00 E	151,074.52	2,124,516.65	0.61	54.97	
3,345.00	0.04	326.56	326.82	1,927.71	3,343.11	54.84 N	6.08 E	151,074.32	2,124,516.73	0.36	54.77	
3,439.00	0.31	81.87	82.13	2,021.70	3,437.10	54.90 N	6.31 E	151,074.39	2,124,516.96	0.35	54.83	
3,534.00	0.25	47.42	47.68	2,116.70	3,532.10	55.08 N	6.72 E	151,074.56	2,124,517.37	0.18	55.00	
3,628.00	0.35	62.23	62.49	2,210.70	3,626.10	55.35 N	7.13 E	151,074.84	2,124,517.77	0.13	55.26	
3,723.00	0.27	33.21	33.47	2,305.70	3,721.10	55.67 N	7.51 E	151,075.16	2,124,518.15	0.18	55.58	
3,817.00	0.61	301.17	301.43	2,399.70	3,815.10	56.11 N	7.20 E	151,075.60	2,124,517.85	0.72	56.03	
3,912.00	0.13	304.94	305.20	2,494.70	3,910.10	56.44 N	6.68 E	151,075.93	2,124,517.32	0.51	56.36	
4,010.00	3.32	11.39	11.65	2,592.64	4,008.04	59.28 N	7.17 E	151,078.77	2,124,517.79	3.34	59.20	
4,041.00	5.99	13.83	14.09	2,623.54	4,038.94	61.73 N	7.74 E	151,081.22	2,124,518.36	8.63	61.64	
4,073.00	8.54	13.75	14.01	2,655.28	4,070.68	65.66 N	8.72 E	151,085.15	2,124,519.32	7.97	65.56	
4,105.00	10.98	13.99	14.25	2,686.81	4,102.21	70.92 N	10.05 E	151,090.42	2,124,520.62	7.63	70.80	
4,136.00	13.62	13.66	13.92	2,717.10	4,132.50	77.32 N	11.65 E	151,096.83	2,124,522.20	8.52	77.19	
4,168.00	16.54	13.90	14.16	2,747.99	4,163.39	85.40 N	13.67 E	151,104.92	2,124,524.18	9.13	85.24	
4,199.00	19.47	13.92	14.18	2,777.47	4,192.87	94.69 N	16.02 E	151,114.22	2,124,526.49	9.45	94.50	
4,231.00	22.26	13.70	13.96	2,807.37	4,222.77	105.74 N	18.79 E	151,125.28	2,124,529.20	8.72	105.53	
4,262.00	25.09	14.01	14.27	2,835.76	4,251.16	117.81 N	21.83 E	151,137.37	2,124,532.19	9.14	117.56	
4,293.00	27.13	14.16	14.42	2,863.59	4,278.99	131.03 N	25.21 E	151,150.60	2,124,535.51	6.58	130.74	
4,325.00	29.13	14.28	14.54	2,891.81	4,307.21	145.64 N	28.98 E	151,165.22	2,124,539.21	6.25	145.30	
4,356.00	31.60	14.06	14.32	2,918.56	4,333.96	160.81 N	32.88 E	151,180.42	2,124,543.05	7.98	160.43	
4,388.00	34.20	14.42	14.68	2,945.42	4,360.82	177.64 N	37.24 E	151,197.26	2,124,547.32	8.15	177.21	
4,419.00	36.36	15.26	15.52	2,970.73	4,386.13	194.92 N	41.90 E	151,214.57	2,124,551.91	7.14	194.44	
4,451.00	37.94	16.06	16.32	2,996.23	4,411.63	213.50 N	47.21 E	151,233.17	2,124,557.13	5.16	212.96	
4,482.00	39.90	16.45	16.71	3,020.35	4,435.75	232.17 N	52.74 E	151,251.87	2,124,562.58	6.37	231.57	
4,514.00	42.40	15.80	16.06	3,044.44	4,459.84	252.37 N	58.68 E	151,272.10	2,124,568.42	7.93	251.71	
4,545.00	45.23	14.25	14.51	3,066.81	4,482.21	273.08 N	64.33 E	151,292.82	2,124,573.98	9.76	272.34	
4,577.00	47.27	13.70	13.96	3,088.94	4,504.34	295.48 N	70.01 E	151,315.26	2,124,579.56	6.49	294.68	
4,608.00	50.61	13.46	13.72	3,109.30	4,524.70	318.17 N	75.60 E	151,337.97	2,124,585.04	10.79	317.31	
4,640.00	53.31	13.32	13.58	3,129.01	4,544.41	342.66 N	81.55 E	151,362.49	2,124,590.88	8.44	341.73	
4,672.00	55.22	13.40	13.66	3,147.70	4,563.10	367.91 N	87.66 E	151,387.76	2,124,596.88	5.97	366.91	
4,703.00	57.02	13.78	14.04	3,164.98	4,580.38	392.89 N	93.83 E	151,412.78	2,124,602.93	5.89	391.83	
4,735.00	59.18	13.53	13.79	3,181.89	4,597.29	419.26 N	100.36 E	151,439.17	2,124,609.34	6.78	418.12	
4,766.00	60.08	13.68	13.94	3,197.57	4,612.97	445.23 N	106.77 E	151,465.17	2,124,615.63	2.93	444.01	
4,798.00	60.36	13.90	14.16	3,213.46	4,628.86	472.17 N	113.51 E	151,492.14	2,124,622.25	1.06	470.88	

**Design Report for Albright Farms 3407 #15-1H / Job# 9199272/ Nabors 774 - 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			
4,829.00	60.76	14.01	14.27	3,228.70	4,644.10	498.34 N	120.14 E	151,518.34	2,124,628.76	1.33	496.97	
4,861.00	61.26	14.10	14.36	3,244.20	4,659.60	525.46 N	127.06 E	151,545.50	2,124,635.55	1.58	524.02	
4,892.00	62.19	14.31	14.57	3,258.89	4,674.29	551.90 N	133.88 E	151,571.96	2,124,642.25	3.06	550.38	
4,924.00	65.18	14.12	14.38	3,273.07	4,688.47	579.67 N	141.05 E	151,599.76	2,124,649.29	9.36	578.06	
4,955.00	67.85	14.11	14.37	3,285.43	4,700.83	607.21 N	148.11 E	151,627.34	2,124,656.23	8.61	605.52	
4,987.00	69.57	13.64	13.90	3,297.04	4,712.44	636.12 N	155.39 E	151,656.28	2,124,663.37	5.55	634.35	
5,008.30	70.69	13.70	13.96	3,304.28	4,719.68	655.56 N	160.21 E	151,675.74	2,124,668.11	5.27	653.74	Miss POE 4740' TVD (993' FSL, 528' FWL)
5,018.00	71.20	13.73	13.99	3,307.45	4,722.85	664.46 N	162.42 E	151,684.65	2,124,670.28	5.27	662.61	
5,050.00	73.27	13.64	13.90	3,317.21	4,732.61	694.03 N	169.77 E	151,714.26	2,124,677.49	6.47	692.10	
5,081.00	76.69	13.66	13.92	3,325.25	4,740.65	723.09 N	176.96 E	151,743.35	2,124,684.55	11.03	721.08	
5,113.00	79.92	14.03	14.29	3,331.73	4,747.13	753.48 N	184.60 E	151,773.77	2,124,692.05	10.16	751.38	
5,144.00	81.90	14.39	14.65	3,336.63	4,752.03	783.12 N	192.25 E	151,803.45	2,124,699.56	6.49	780.93	
5,176.00	82.53	14.43	14.69	3,340.96	4,756.36	813.79 N	200.28 E	151,834.15	2,124,707.45	1.97	811.51	
5,207.00	84.31	14.26	14.52	3,344.52	4,759.92	843.59 N	208.04 E	151,863.99	2,124,715.08	5.77	841.22	
5,239.00	86.76	13.46	13.72	3,347.01	4,762.41	874.52 N	215.82 E	151,894.96	2,124,722.72	8.05	872.07	
5,270.00	88.70	13.49	13.75	3,348.23	4,763.63	904.61 N	223.18 E	151,925.08	2,124,729.94	6.26	902.08	
5,302.00	89.29	13.62	13.88	3,348.80	4,764.20	935.68 N	230.82 E	151,956.19	2,124,737.43	1.89	933.06	
5,333.00	89.69	14.04	14.30	3,349.07	4,764.47	965.75 N	238.37 E	151,986.29	2,124,744.84	1.87	963.04	
5,370.00	90.06	14.08	14.34	3,349.15	4,764.55	1,001.60 N	247.52 E	152,022.18	2,124,753.83	1.01	998.78	
5,466.00	90.62	14.25	14.51	3,348.58	4,763.98	1,094.57 N	271.43 E	152,115.26	2,124,777.32	0.61	1,091.48	
5,497.00	90.96	13.51	13.77	3,348.16	4,763.56	1,124.63 N	279.00 E	152,145.35	2,124,784.75	2.63	1,121.46	
5,528.00	90.77	13.29	13.55	3,347.69	4,763.09	1,154.75 N	286.32 E	152,175.50	2,124,791.93	0.94	1,151.49	
5,558.00	90.25	13.19	13.45	3,347.42	4,762.82	1,183.92 N	293.33 E	152,204.70	2,124,798.80	1.77	1,180.58	
5,589.00	89.35	13.48	13.74	3,347.53	4,762.93	1,214.05 N	300.61 E	152,234.87	2,124,805.95	3.05	1,210.63	
5,620.00	89.54	13.33	13.59	3,347.83	4,763.23	1,244.17 N	307.94 E	152,265.02	2,124,813.14	0.78	1,240.67	
5,651.00	89.75	13.28	13.54	3,348.02	4,763.42	1,274.30 N	315.21 E	152,295.19	2,124,820.27	0.70	1,270.72	
5,681.00	90.22	13.15	13.41	3,348.03	4,763.43	1,303.48 N	322.20 E	152,324.39	2,124,827.13	1.63	1,299.81	
5,774.00	88.12	12.53	12.79	3,349.38	4,764.78	1,394.04 N	343.27 E	152,415.05	2,124,847.79	2.35	1,390.14	
5,869.00	88.89	12.19	12.45	3,351.85	4,767.25	1,486.72 N	364.02 E	152,507.82	2,124,868.11	0.89	1,482.58	
5,963.00	90.00	11.45	11.71	3,352.77	4,768.17	1,578.63 N	383.69 E	152,599.82	2,124,887.36	1.42	1,574.26	
6,057.00	90.83	11.02	11.28	3,352.08	4,767.48	1,670.74 N	402.42 E	152,692.02	2,124,905.67	0.99	1,666.16	
6,152.00	90.65	11.73	11.99	3,350.86	4,766.26	1,763.78 N	421.58 E	152,785.14	2,124,924.40	0.77	1,758.98	
6,246.00	90.89	12.23	12.49	3,349.59	4,764.99	1,855.63 N	441.51 E	152,877.09	2,124,943.91	0.59	1,850.61	
6,341.00	91.26	13.05	13.31	3,347.81	4,763.21	1,948.22 N	462.71 E	152,969.77	2,124,964.69	0.95	1,942.95	
6,435.00	90.56	14.70	14.96	3,346.32	4,761.72	2,039.36 N	485.67 E	153,061.01	2,124,987.22	1.91	2,033.83	
6,530.00	90.09	14.64	14.90	3,345.78	4,761.18	2,131.15 N	510.14 E	153,152.91	2,125,011.28	0.50	2,125.34	

**Design Report for Albright Farms 3407 #15-1H / Job# 9199272/ Nabors 774 - 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			
6,625.00	91.39	13.88	14.14	3,344.55	4,759.95	2,223.10 N	533.96 E	153,244.98	2,125,034.67	1.59	2,217.03	
6,719.00	90.06	14.74	15.00	3,343.36	4,758.76	2,314.07 N	557.60 E	153,336.05	2,125,057.90	1.68	2,307.73	
6,814.00	89.78	14.77	15.03	3,343.50	4,758.90	2,405.83 N	582.21 E	153,427.92	2,125,082.09	0.30	2,399.20	
6,908.00	90.86	14.47	14.73	3,342.97	4,758.37	2,496.67 N	606.35 E	153,518.87	2,125,105.81	1.19	2,489.77	
7,003.00	89.54	15.34	15.60	3,342.64	4,758.04	2,588.36 N	631.20 E	153,610.67	2,125,130.25	1.66	2,581.18	
7,097.00	90.31	15.26	15.52	3,342.76	4,758.16	2,678.91 N	656.42 E	153,701.34	2,125,155.05	0.82	2,671.45	
7,192.00	88.80	15.59	15.85	3,343.50	4,758.90	2,770.37 N	682.10 E	153,792.92	2,125,180.31	1.63	2,762.61	
7,287.00	89.41	15.14	15.40	3,344.98	4,760.38	2,861.85 N	707.68 E	153,884.51	2,125,205.47	0.80	2,853.80	
7,381.00	90.34	14.57	14.83	3,345.19	4,760.59	2,952.59 N	732.19 E	153,975.37	2,125,229.57	1.16	2,944.27	
7,476.00	88.36	15.51	15.77	3,346.27	4,761.67	3,044.22 N	757.26 E	154,067.10	2,125,254.21	2.31	3,035.61	
7,570.00	89.14	15.33	15.59	3,348.32	4,763.72	3,134.70 N	782.66 E	154,157.70	2,125,279.20	0.85	3,125.80	
7,665.00	90.65	15.16	15.42	3,348.49	4,763.89	3,226.24 N	808.05 E	154,249.35	2,125,304.17	1.60	3,217.05	
7,759.00	92.10	14.43	14.69	3,346.24	4,761.64	3,316.98 N	832.46 E	154,340.21	2,125,328.17	1.73	3,307.52	
7,854.00	91.11	15.51	15.77	3,343.58	4,758.98	3,408.60 N	857.41 E	154,431.95	2,125,352.69	1.54	3,398.86	
7,948.00	89.60	16.69	16.95	3,342.99	4,758.39	3,498.79 N	883.88 E	154,522.25	2,125,378.75	2.04	3,488.75	
8,043.00	91.21	17.28	17.54	3,342.32	4,757.72	3,589.52 N	912.04 E	154,613.10	2,125,406.50	1.80	3,579.15	
8,137.00	89.17	17.01	17.27	3,342.01	4,757.41	3,679.21 N	940.16 E	154,702.92	2,125,434.20	2.19	3,668.53	
8,232.00	90.03	16.91	17.17	3,342.67	4,758.07	3,769.95 N	968.28 E	154,793.79	2,125,461.91	0.91	3,758.95	
8,326.00	90.86	16.55	16.81	3,341.94	4,757.34	3,859.84 N	995.75 E	154,883.81	2,125,488.97	0.96	3,848.53	
8,421.00	89.72	14.97	15.23	3,341.46	4,756.86	3,951.14 N	1,021.96 E	154,975.23	2,125,514.76	2.05	3,939.54	
8,515.00	90.31	13.57	13.83	3,341.44	4,756.84	4,042.14 N	1,045.55 E	155,066.33	2,125,537.93	1.62	4,030.26	
8,610.00	88.86	12.75	13.01	3,342.13	4,757.53	4,134.54 N	1,067.59 E	155,158.83	2,125,559.55	1.75	4,122.41	
8,704.00	89.66	12.22	12.48	3,343.34	4,758.74	4,226.21 N	1,088.33 E	155,250.60	2,125,579.87	1.02	4,213.85	
8,799.00	90.62	12.54	12.80	3,343.11	4,758.51	4,318.91 N	1,109.12 E	155,343.39	2,125,600.23	1.07	4,306.31	
8,893.00	91.45	12.08	12.34	3,341.41	4,756.81	4,410.64 N	1,129.57 E	155,435.21	2,125,620.27	1.01	4,397.81	
8,988.00	92.72	12.10	12.36	3,337.95	4,753.35	4,503.38 N	1,149.88 E	155,528.04	2,125,640.15	1.34	4,490.31	
9,013.00	93.08	12.46	12.72	3,336.69	4,752.09	4,527.75 N	1,155.30 E	155,552.44	2,125,645.46	2.04	4,514.62	Last MWD Survey
9,063.00	93.08	12.46	12.72	3,334.00	4,749.40	4,576.45 N	1,166.29 E	155,601.19	2,125,656.23	0.00	4,563.20	Projection to TD - PBHL ACF 3407 15-1H (340' FNL, 1599' FWL)

**Design Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
208.00	208.00	0.05	0.76	First MWD Survey
9,013.00	4,752.09	4,527.75	1,155.30	Last MWD Survey
9,063.00	4,749.40	4,576.45	1,166.29	Projection to TD



**Design Report for Albright Farms 3407 #15-1H / Job# 9199272/ Nabors 774 - 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)	359.36	Slot	0.00	0.00	0.00

**Survey tool program**

From (ft)	To (ft)	Survey/Plan	Survey Tool
208.00	9,063.00	MWD Surveys	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:	1.81 °/100ft	Maximum Dogleg over Survey:	11.03 °/100ft at 5,081.00 ft
Net Tortousity applicable to Plans:	0.02 °/100ft	Directional Difficulty Index:	6.169

**Audit Info**

## North Reference Sheet for Sec 15-T34S-R07W - Albright Farms 3407 #15-1H / Job# 9199272/ Nabors 774 - 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 @ 1415.40ft. Northing and Easting are relative to Albright Farms 3407 #15-1H / Job# 9199272/ Nabors 774

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: 1.00004177

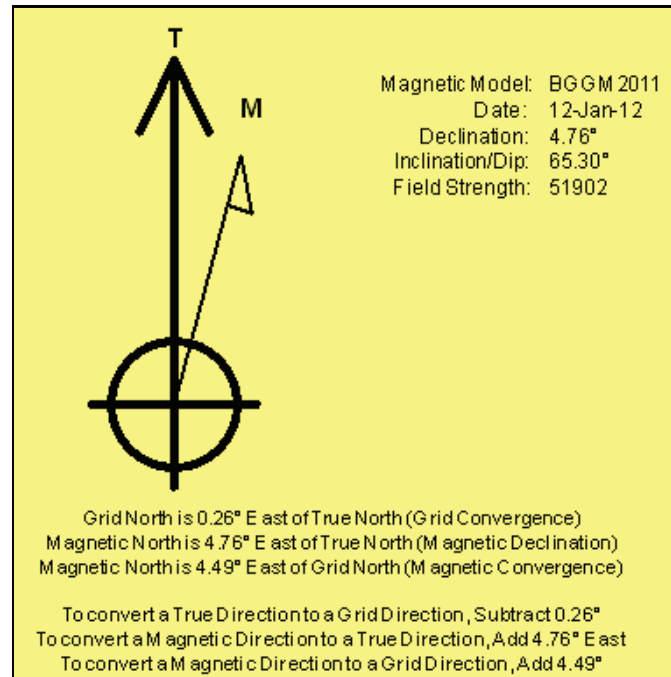
Grid Coordinates of Well: 151,019.46 ft N, 2,124,510.90 ft E

Geographical Coordinates of Well: 37° 04' 50.29" N, 098° 04' 23.58" W

Grid Convergence at Surface is: 0.26°

Based upon Minimum Curvature type calculations, at a Measured Depth of 9,063.00ft the Bottom Hole Displacement is 4,722.73ft in the Direction of 14.30° (True).

Magnetic Convergence at surface is: -4.49° (12 January 2012, , BGGM2011)



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Mark Sievers, Chairman  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 25, 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 15-077-21787-01-00  
ALBRIGHT CROFT 3407 15-1H  
SW/4 Sec.15-34S-07W  
Harper 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