



Confidentiality Requested:

Yes  No

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

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

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

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

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

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

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

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

Datum:  NAD27       NAD83       WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

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

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

Location of fluid disposal if hauled offsite:

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

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

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

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

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

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



1131338

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

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<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> <input type="checkbox"/> Other <i>(Specify)</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	Kaup 3407 16-1H
Doc ID	1131338

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	5822 - 6032'	102354 gals fluid & 30683# proppant	
6	6098 - 6303'	114366 gals fluid & 21034# proppant	
6	6374 - 6584'	148848 gals fluid & 52916# proppant	
6	6650 - 6843'	131544 gals fluid & 54673# proppant	
6	7047 - 7275'	165522 gals fluid & 53973# proppant	
6	7335 - 7530'	123900 gals fluid & 55018# proppant	
6	8112 - 8447'	199290 gals fluid & 78085# proppant	
6	8600 - 8838'	161616 gals fluid & 70162# proppant	
6	8911 - 9141'	161574 gals fluid & 63244# proppant	
6	9215 - 9445'	198324 gals fluid & 65839# proppant	

Form	ACO1 - Well Completion
Operator	Shell Gulf of Mexico Inc.
Well Name	Kaup 3407 16-1H
Doc ID	1131338

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	26	18	47.76	60	1/2 Portland Cmt	30	15% Fly Ash
Surface	12.25	9.625	36	544	Class C	270	See attached
Intermediate	8.75	7	26	5172	Class C	350	See attached
Liner	6.125	4.5	11.6	9516	Class H	425	See attached

## SHELL GULF OF MEXICO, INC. (34574)

## KAUP 3407-16

**PETE MARTIN DRILLING (34645)**  
**(SET THE CONDUCTOR)**

	1-H Conductor	1-H Mouse Hole
Call in DATE OF SPUD	11/5/2012	
spud in date	11/6/2012	11/8/2012
T.D date	11/6/2012	11/8/2012
Size Hole Drilled	26"	20"
Size Casing Set (in O.D )	18"	14"
Conductor wall thickness	250	188
Weight Lbs./Ft.	47.76	27.76
Setting Depth	60'	77"
Type of Cement	type 1/2 portland cement	Type 1/2 portland cement
Cubic yards of cement	5cy	7cy
2500 PSI Grout Mix	yes	yes
Type and Percent of Additives	15% fly ash	15% fly ash
Comments	0 to 60ft is red clay hit water at 40ft	0 to 77ft is red clay hit water at 40ft

# CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 03-JAN-13	F.R. # 1001955334	SERV. SUPV. Jonathan M Schulz
LEASE & WELL NAME KAUP 3407 #16-1H - API 15077218850000	LOCATION 16-34S-7W		COUNTY-PARISH-BLOCK Harper Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG #		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	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 + .25pps Celloflake		270	14.8	1.35	6.34		68 42.69
Water			8.34				37
Available Mix Water <u>500</u> Bbl.		Available Displ. Fluid <u>440</u> Bbl.		TOTAL		<u>125</u>	<u>42.69</u>

HOLE			TBG-CSG-D.P.							COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
12.25		512	8.921	9.625	36	CSG	508	508	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.
18.	18	47.4	CSG	60	60						9.625	8RD	WATER BASED MU	8.85

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	
37	BBLs	Water	8.34	156					2816	1200	Rig Tank

**EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING** Arrive on location 1430, drilling hole, circulating hole, POOH, Rig up Casing Crew, 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 3055 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
10:39	3055				WATER	test pumps & lines	
10:40	223		4		WATER	open well/start water spacer ahead	
10:56	227		4	20	WATER	end water ahead/ start slurry @ 14.8ppg	
11:20	68		3	68	SLURRY	end slurry/ shutdown	
11:25	46		3		WATER	drop TRP/start displacement	
11:27	47		3	2	WATER	cement returned to surface	
11:37	700		4	37	WATER	bump plug/ shutdown	
11:39	600					repressure casing	
11:48	545					repressure casing	
11:54	0			-125		check floats/ holding/ bbls back	
						35 bbls cement return to surface	
						Thanks for Using BHI Pressure Pumping	
						Jonathan Schulz & 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	700	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	35	125	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

# CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 21-JAN-13	F.R. # 1001960004	SERV. SUPV. Justin D Stamper
LEASE & WELL NAME KAUP 3407 #16-1H - API 15077218850000	LOCATION 16-34S-7W		COUNTY-PARISH-BLOCK Harper Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG # Nabors 102		TYPE OF JOB Intermediate

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

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES						
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
SEALBOND			8.45				40	
15:85:8(POZ,C,GEL)+10%SALT+.5%SMS+4PPS KOLS		75	12.4	2.45	13.51		33	24.33
50:50:2(POZ,C,GEL)+4#KOLSL+.15%SMS+.3%FL52		275	14.2	1.32	5.66		65	37.26
WATER			8.34				202	

Available Mix Water	600	Bbl.	Available Displ. Fluid	600	Bbl.	TOTAL	340	61.59
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HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
8.75		5181	6.276	7	26	CSG	5172	4738	L-80	5172	5126	

LAST CASING				PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID		
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
8.9	9.625	36		500	500			4600	4600	7	BUTT	WATER BASED MU	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	
202	BBLS	WATER	8.34	500					5072	3000	RIG

**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	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
11:00						ARRIVE ON LOCATION	
17:30						SAFETY MEETING	
17:45				40	SEAL BON	RIG TO PUMP SEAL BOND	
18:20	4500				WATER	TEST LINES, START LEAD SLURRY	
18:33	600		5	33	LEAD	FINISH LEAD, START TAIL	
18:46	400		5	65	TAIL	FINISH TAIL, SHUT DOWN, DROP PLUG, DISPLACE	
19:22	2400		4	148	WATER	SHUT DOWN DUE TO BRIDGE OFF, START BACK AT IT SLOW	
19:36	1400		4	42	WATER	SLOW TO BUMP PLUG	
19:40	1300		2	10	WATER	BUMP PLUG, PRESSURE TO 1800 PSI	
19:50					WATER	BLEED OFF RECEIVED 1.5 BBLS BACK TO TRUCK	
						FLOATS HOLDING	
						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	1700	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	0	340	0	Y <input checked="" type="checkbox"/> N	

# Shell Exploration & Production Co. Inc.

Harper Co. KS (NAD-27)

Sec 16-T34S-R7W

Kaup 3407 #16-1H

900034004

Wellbore #1

Design: Wellbore #1

## Sperry Drilling Services

# Combo Report With Grid North & True North

20 February, 2013

Surface UWI : 900034004

TD Date : 2nd Jan, 2013

Well Coordinates: 150,979.29 N, 2,119,730.03 E (37° 04' 50.10" N, 098° 05' 22.57" W)

Ground Level: 1,359.00 ft

Local Coordinate Origin:

Viewing Datum:

TVDs to System:

North Reference:

Unit System:

Centered on Well Kaup 3407 #16-1H

WELL @ 1390.70ft (Nabors 102 (31.7'))

N

Grid

API US New

Version: 2003.21 Build: 46

**HALLIBURTON**



## Design Report for Kaup 3407 #16-1H - 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	0.00	0.25	-1,390.70	0.00	0.00 N	0.00 E	150,979.29	2,119,730.03	0.00	0.00	
173.00	1.73	285.58	285.83	-1,217.73	172.97	0.70 N	2.52 W	150,979.99	2,119,727.51	1.00	-0.53	Start MWD @ 173.00 MD
204.00	2.06	281.47	281.72	-1,186.74	203.96	0.94 N	3.51 W	150,980.23	2,119,726.52	1.15	-0.69	
235.00	2.62	279.10	279.35	-1,155.77	234.93	1.16 N	4.76 W	150,980.45	2,119,725.27	1.83	-0.83	
271.00	3.61	275.38	275.63	-1,119.82	270.88	1.40 N	6.70 W	150,980.69	2,119,723.33	2.81	-0.93	
333.00	5.62	258.74	258.99	-1,058.02	332.68	0.99 N	11.62 W	150,980.28	2,119,718.41	3.86	-0.19	
445.00	6.74	241.65	241.90	-946.67	444.03	3.20 S	22.78 W	150,976.09	2,119,707.25	1.91	4.76	
527.00	7.67	240.32	240.57	-865.32	525.38	8.20 S	31.77 W	150,971.09	2,119,698.26	1.15	10.36	
622.00	6.27	243.13	243.38	-771.02	619.68	13.68 S	41.91 W	150,965.61	2,119,688.12	1.52	16.53	
716.00	6.00	241.89	242.14	-677.56	713.14	18.32 S	50.82 W	150,960.97	2,119,679.21	0.32	21.77	
811.00	4.76	251.21	251.46	-582.98	807.72	21.93 S	58.93 W	150,957.36	2,119,671.10	1.59	25.93	
906.00	4.41	251.36	251.61	-488.28	902.42	24.36 S	66.13 W	150,954.93	2,119,663.90	0.37	28.85	
1,093.00	4.67	232.99	233.24	-301.86	1,088.84	31.25 S	79.02 W	150,948.04	2,119,651.01	0.79	36.60	
1,280.00	5.65	236.01	236.26	-115.62	1,275.08	40.97 S	92.73 W	150,938.32	2,119,637.30	0.54	47.25	
1,463.00	6.30	236.92	237.17	66.39	1,457.09	51.49 S	108.61 W	150,927.80	2,119,621.42	0.36	58.83	
1,645.00	5.15	243.97	244.22	247.48	1,638.18	60.53 S	124.32 W	150,918.76	2,119,605.71	0.74	68.93	
1,744.00	5.26	245.51	245.76	346.07	1,736.77	64.36 S	132.44 W	150,914.93	2,119,597.59	0.18	73.31	
1,835.00	3.48	235.44	235.69	436.80	1,827.50	67.65 S	138.51 W	150,911.64	2,119,591.52	2.12	77.01	
1,926.00	3.24	226.92	227.17	527.65	1,918.35	70.98 S	142.67 W	150,908.31	2,119,587.36	0.61	80.61	
2,020.00	3.01	222.25	222.50	621.51	2,012.21	74.62 S	146.27 W	150,904.67	2,119,583.77	0.36	84.49	
2,115.00	4.54	243.20	243.45	716.30	2,107.00	78.16 S	151.30 W	150,901.13	2,119,578.73	2.14	88.37	
2,209.00	5.15	246.80	247.05	809.97	2,200.67	81.50 S	158.50 W	150,897.79	2,119,571.53	0.72	92.20	
2,303.00	5.55	247.44	247.69	903.56	2,294.26	84.90 S	166.57 W	150,894.39	2,119,563.46	0.43	96.15	
2,398.00	5.88	249.02	249.27	998.09	2,388.79	88.41 S	175.36 W	150,890.88	2,119,554.67	0.38	100.25	
2,492.00	4.91	238.79	239.04	1,091.67	2,482.37	92.22 S	183.30 W	150,887.07	2,119,546.74	1.45	104.59	
2,587.00	4.68	234.20	234.45	1,186.34	2,577.04	96.59 S	189.92 W	150,882.70	2,119,540.11	0.47	109.41	
2,681.00	4.71	234.81	235.06	1,280.02	2,670.72	101.06 S	196.18 W	150,878.23	2,119,533.85	0.06	114.30	
2,776.00	4.88	236.02	236.27	1,374.69	2,765.39	105.57 S	202.72 W	150,873.72	2,119,527.31	0.21	119.24	
2,870.00	5.56	241.11	241.36	1,468.30	2,859.00	110.00 S	210.02 W	150,869.29	2,119,520.01	0.87	124.17	
2,964.00	4.19	243.13	243.38	1,561.96	2,952.66	113.75 S	217.07 W	150,865.54	2,119,512.96	1.47	128.40	
3,059.00	3.73	241.50	241.75	1,656.73	3,047.43	116.80 S	222.88 W	150,862.49	2,119,507.15	0.50	131.83	
3,153.00	3.63	225.27	225.52	1,750.54	3,141.24	120.35 S	227.68 W	150,858.94	2,119,502.35	1.11	135.71	
3,248.00	4.93	222.65	222.90	1,845.27	3,235.97	125.47 S	232.59 W	150,853.82	2,119,497.44	1.38	141.15	
3,342.00	4.85	216.60	216.85	1,938.93	3,329.63	131.63 S	237.69 W	150,847.66	2,119,492.34	0.55	147.65	
3,437.00	5.74	220.34	220.59	2,033.52	3,424.22	138.47 S	243.16 W	150,840.82	2,119,486.87	1.00	154.85	
3,531.00	5.98	223.95	224.20	2,127.03	3,517.73	145.58 S	249.60 W	150,833.71	2,119,480.43	0.47	162.39	
3,625.00	4.67	233.29	233.54	2,220.63	3,611.33	151.40 S	256.07 W	150,827.90	2,119,473.96	1.67	168.63	

**Design Report for Kaup 3407 #16-1H - 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			
3,720.00	4.17	235.26	235.51	2,315.35	3,706.05	155.68 S	262.01 W	150,823.61	2,119,468.02	0.55	173.31	
3,814.00	4.16	240.24	240.49	2,409.10	3,799.80	159.32 S	267.78 W	150,819.98	2,119,462.25	0.38	177.34	
3,908.00	3.73	240.93	241.18	2,502.87	3,893.57	162.49 S	273.41 W	150,816.80	2,119,456.62	0.46	180.90	
4,003.00	3.30	241.10	241.35	2,597.70	3,988.40	165.32 S	278.50 W	150,813.97	2,119,451.53	0.45	184.06	
4,097.00	2.98	243.64	243.89	2,691.55	4,082.25	167.71 S	283.06 W	150,811.58	2,119,446.97	0.37	186.76	
4,160.00	3.72	236.24	236.49	2,754.45	4,145.15	169.57 S	286.23 W	150,809.72	2,119,443.80	1.36	188.84	
4,191.00	4.48	237.08	237.33	2,785.37	4,176.07	170.79 S	288.08 W	150,808.50	2,119,441.95	2.46	190.18	
4,223.00	6.05	228.33	228.58	2,817.23	4,207.93	172.59 S	290.39 W	150,806.70	2,119,439.64	5.50	192.13	
4,255.00	8.36	215.67	215.92	2,848.98	4,239.68	175.60 S	293.01 W	150,803.69	2,119,437.02	8.72	195.32	
4,286.00	10.75	206.38	206.63	2,879.55	4,270.25	180.02 S	295.61 W	150,799.27	2,119,434.43	9.15	199.91	
4,317.00	13.11	203.55	203.80	2,909.88	4,300.58	185.84 S	298.30 W	150,793.45	2,119,431.74	7.84	205.89	
4,349.00	15.65	199.83	200.08	2,940.87	4,331.57	193.22 S	301.21 W	150,786.07	2,119,428.82	8.44	213.46	
4,380.00	18.58	195.76	196.01	2,970.50	4,361.20	201.91 S	303.97 W	150,777.38	2,119,426.06	10.21	222.32	
4,412.00	21.67	190.21	190.46	3,000.54	4,391.24	212.64 S	306.40 W	150,766.65	2,119,423.63	11.34	233.19	
4,443.00	25.26	188.99	189.24	3,028.97	4,419.67	224.81 S	308.45 W	150,754.48	2,119,421.58	11.69	245.47	
4,475.00	28.55	187.20	187.45	3,057.51	4,448.21	239.14 S	310.48 W	150,740.15	2,119,419.55	10.59	259.91	
4,506.00	32.03	186.97	187.22	3,084.27	4,474.97	254.66 S	312.40 W	150,724.63	2,119,417.63	11.23	275.52	
4,538.00	35.32	186.37	186.62	3,110.90	4,501.60	272.28 S	314.46 W	150,707.01	2,119,415.57	10.33	293.24	
4,569.00	39.02	186.37	186.62	3,135.60	4,526.30	290.89 S	316.54 W	150,688.40	2,119,413.49	11.94	311.95	
4,601.00	41.89	187.14	187.39	3,159.94	4,550.64	311.50 S	318.98 W	150,667.79	2,119,411.05	9.10	332.69	
4,633.00	45.96	187.94	188.19	3,182.99	4,573.69	333.51 S	321.90 W	150,645.79	2,119,408.13	12.84	354.84	
4,664.00	48.70	188.95	189.20	3,204.00	4,594.70	356.05 S	325.25 W	150,623.24	2,119,404.78	9.16	377.56	
4,695.00	51.87	187.91	188.16	3,223.80	4,614.50	379.63 S	328.74 W	150,599.66	2,119,401.29	10.55	401.33	
4,727.00	53.80	186.69	186.94	3,243.13	4,633.83	404.93 S	331.98 W	150,574.36	2,119,398.05	6.75	426.78	
4,758.00	55.94	185.30	185.55	3,260.97	4,651.67	430.14 S	334.62 W	150,549.15	2,119,395.41	7.82	452.12	
4,790.00	58.18	184.25	184.50	3,278.37	4,669.07	456.90 S	336.86 W	150,522.39	2,119,393.17	7.52	478.97	
4,821.00	61.11	183.19	183.44	3,294.03	4,684.73	483.59 S	338.59 W	150,495.70	2,119,391.44	9.90	505.71	
4,853.00	65.31	182.14	182.39	3,308.45	4,699.15	512.12 S	339.91 W	150,467.17	2,119,390.12	13.45	534.26	
4,884.00	70.31	181.85	182.10	3,320.16	4,710.86	540.80 S	340.91 W	150,438.50	2,119,389.12	16.15	562.94	
4,915.00	74.18	180.57	180.82	3,329.61	4,720.31	570.31 S	341.53 W	150,408.99	2,119,388.50	13.09	592.43	
4,947.00	77.02	181.43	181.68	3,337.57	4,728.27	601.29 S	342.07 W	150,378.00	2,119,387.96	9.25	623.38	
4,978.00	79.26	180.49	180.74	3,343.94	4,734.64	631.62 S	342.58 W	150,347.67	2,119,387.45	7.81	653.67	
5,010.00	82.18	181.53	181.78	3,349.10	4,739.80	663.20 S	343.14 W	150,316.09	2,119,386.89	9.67	685.21	
5,042.00	85.18	181.39	181.64	3,352.62	4,743.32	694.99 S	343.95 W	150,284.30	2,119,386.08	9.39	716.98	
5,125.00	90.71	180.72	180.97	3,355.60	4,746.30	777.89 S	345.47 W	150,201.40	2,119,384.56	6.71	799.79	
5,248.00	92.28	180.27	180.52	3,352.39	4,743.09	900.84 S	346.53 W	150,078.45	2,119,383.50	1.33	922.52	
5,341.00	89.11	180.08	180.33	3,351.26	4,741.96	993.82 S	346.82 W	149,985.47	2,119,383.21	3.41	1,015.30	

**Design Report for Kaup 3407 #16-1H - 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			
5,435.00	87.74	179.54	179.79	3,353.84	4,744.54	1,087.78 S	346.51 W	149,891.51	2,119,383.52	1.57	1,109.02	
5,528.00	87.54	179.29	179.54	3,357.67	4,748.37	1,180.70 S	345.56 W	149,798.60	2,119,384.47	0.34	1,201.65	
5,620.00	87.75	178.24	178.49	3,361.45	4,752.15	1,272.60 S	343.58 W	149,706.70	2,119,386.45	1.16	1,293.20	
5,711.00	87.88	177.75	178.00	3,364.92	4,755.62	1,363.47 S	340.40 W	149,615.82	2,119,389.63	0.56	1,383.64	
5,802.00	87.75	178.55	178.80	3,368.39	4,759.09	1,454.36 S	337.46 W	149,524.93	2,119,392.57	0.89	1,474.11	
5,893.00	87.38	178.64	178.89	3,372.26	4,762.96	1,545.25 S	335.23 W	149,434.04	2,119,394.80	0.42	1,564.63	
5,984.00	90.03	177.97	178.22	3,374.31	4,765.01	1,636.18 S	332.54 W	149,343.12	2,119,397.49	3.00	1,655.16	
6,075.00	90.92	179.56	179.81	3,373.56	4,764.26	1,727.15 S	330.58 W	149,252.14	2,119,399.45	2.00	1,745.78	
6,166.00	89.91	180.16	180.41	3,372.90	4,763.60	1,818.15 S	330.36 W	149,161.15	2,119,399.67	1.29	1,836.55	
6,261.00	89.82	180.95	181.20	3,373.13	4,763.83	1,913.14 S	331.28 W	149,066.15	2,119,398.75	0.84	1,931.38	
6,356.00	90.06	180.75	181.00	3,373.22	4,763.92	2,008.13 S	332.69 W	148,971.17	2,119,397.34	0.33	2,026.24	
6,451.00	90.09	181.12	181.37	3,373.10	4,763.80	2,103.12 S	334.24 W	148,876.18	2,119,395.79	0.39	2,121.11	
6,546.00	90.15	181.62	181.87	3,372.90	4,763.60	2,198.09 S	336.51 W	148,781.21	2,119,393.52	0.53	2,216.02	
6,640.00	89.32	181.55	181.80	3,373.34	4,764.04	2,292.05 S	339.11 W	148,687.24	2,119,390.92	0.89	2,309.93	
6,735.00	89.54	180.83	181.08	3,374.28	4,764.98	2,387.02 S	341.08 W	148,592.27	2,119,388.95	0.79	2,404.82	
6,829.00	89.91	181.28	181.53	3,374.73	4,765.43	2,481.01 S	342.81 W	148,498.29	2,119,387.22	0.62	2,498.70	
6,924.00	89.08	181.15	181.40	3,375.57	4,766.27	2,575.98 S	344.83 W	148,403.31	2,119,385.21	0.88	2,593.59	
7,018.00	89.29	181.10	181.35	3,376.91	4,767.61	2,669.95 S	346.67 W	148,309.34	2,119,383.36	0.23	2,687.46	
7,112.00	90.25	180.86	181.11	3,377.28	4,767.98	2,763.94 S	348.28 W	148,215.36	2,119,381.75	1.05	2,781.34	
7,207.00	88.09	180.49	180.74	3,378.66	4,769.36	2,858.92 S	349.40 W	148,120.38	2,119,380.63	2.31	2,876.17	
7,301.00	88.28	180.31	180.56	3,381.64	4,772.34	2,952.87 S	350.05 W	148,026.43	2,119,379.98	0.28	2,969.94	
7,395.00	89.41	180.66	180.91	3,383.53	4,774.23	3,046.84 S	350.85 W	147,932.45	2,119,379.18	1.26	3,063.75	
7,490.00	90.86	180.51	180.76	3,383.31	4,774.01	3,141.83 S	351.82 W	147,837.46	2,119,378.21	1.53	3,158.58	
7,584.00	91.05	180.12	180.37	3,381.74	4,772.44	3,235.82 S	352.34 W	147,743.48	2,119,377.70	0.46	3,252.38	
7,679.00	89.75	181.15	181.40	3,381.08	4,771.78	3,330.81 S	353.39 W	147,648.49	2,119,376.64	1.75	3,347.22	
7,774.00	88.86	180.68	180.93	3,382.23	4,772.93	3,425.79 S	354.91 W	147,553.51	2,119,375.13	1.06	3,442.08	
7,868.00	90.12	181.17	181.42	3,383.07	4,773.77	3,519.77 S	356.42 W	147,459.53	2,119,373.61	1.44	3,535.94	
7,963.00	89.91	180.58	180.83	3,383.04	4,773.74	3,614.76 S	357.87 W	147,364.54	2,119,372.16	0.66	3,630.80	
8,057.00	89.17	179.17	179.42	3,383.80	4,774.50	3,708.75 S	357.67 W	147,270.55	2,119,372.36	1.69	3,724.56	
8,151.00	88.24	179.02	179.27	3,385.92	4,776.62	3,802.71 S	356.18 W	147,176.58	2,119,373.85	1.00	3,818.20	
8,246.00	89.69	179.25	179.50	3,387.64	4,778.34	3,897.69 S	354.75 W	147,081.61	2,119,375.28	1.55	3,912.85	
8,340.00	89.60	178.55	178.80	3,388.22	4,778.92	3,991.67 S	352.95 W	146,987.63	2,119,377.08	0.75	4,006.48	
8,435.00	89.41	178.38	178.63	3,389.04	4,779.74	4,086.63 S	350.40 W	146,892.67	2,119,379.63	0.27	4,101.05	
8,529.00	88.86	178.27	178.52	3,390.46	4,781.16	4,180.58 S	347.65 W	146,798.72	2,119,382.38	0.60	4,194.58	
8,624.00	89.91	179.12	179.37	3,391.48	4,782.18	4,275.55 S	345.49 W	146,703.75	2,119,384.54	1.42	4,289.18	
8,718.00	90.25	179.43	179.68	3,391.35	4,782.05	4,369.54 S	344.30 W	146,609.76	2,119,385.73	0.49	4,382.87	
8,813.00	89.26	178.85	179.10	3,391.75	4,782.45	4,464.52 S	342.88 W	146,514.77	2,119,387.16	1.21	4,477.53	

**Design Report for Kaup 3407 #16-1H - 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			
8,907.00	91.79	177.35	177.60	3,390.89	4,781.59	4,558.46 S	339.76 W	146,420.84	2,119,390.27	3.13	4,571.03	
9,002.00	91.85	178.80	179.05	3,387.88	4,778.58	4,653.35 S	336.57 W	146,325.95	2,119,393.46	1.53	4,665.48	
9,096.00	91.05	178.63	178.88	3,385.50	4,776.20	4,747.30 S	334.46 W	146,232.00	2,119,395.57	0.87	4,759.06	
9,191.00	89.44	179.19	179.44	3,385.09	4,775.79	4,842.28 S	332.66 W	146,137.02	2,119,397.38	1.79	4,853.69	
9,285.00	89.57	178.84	179.09	3,385.90	4,776.60	4,936.26 S	331.04 W	146,043.04	2,119,398.99	0.40	4,947.34	
9,380.00	89.42	178.52	178.77	3,386.74	4,777.44	5,031.23 S	328.85 W	145,948.07	2,119,401.18	0.37	5,041.94	
9,474.00	89.75	178.33	178.58	3,387.42	4,778.12	5,125.19 S	326.27 W	145,854.11	2,119,403.76	0.41	5,135.50	End MWD @ 9474.00 MD
9,524.00	89.75	178.33	178.58	3,387.64	4,778.34	5,175.17 S	324.81 W	145,804.13	2,119,405.22	0.00	5,185.26	Projection to TD @ 9524.00 MD - Kaup 3407 #16-1H PBHL Plan 6

**Design Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N-S (ft)	+E-W (ft)	
173.00	172.97	0.70	-2.52	Start MWD @ 173.00 MD
9,474.00	4,778.12	-5,125.19	-326.27	End MWD @ 9474.00 MD
9,524.00	4,778.34	-5,175.17	-324.81	Projection to TD @ 9524.00 MD

**Vertical Section Information**

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/_S (ft)	+E/-W (ft)	
User	No Target (Freehand)	183.94	Slot	0.00	0.00	0.00



Design Report for Kaup 3407 #16-1H - Wellbore #1

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
173.00	445.00	Run 0100	MWD+SC
527.00	5,125.00	Run 0200	MWD+SC
5,248.00	5,341.00	Run 0300	MWD+SC
5,435.00	5,528.00	Run 0400	MWD+SC
5,620.00	5,711.00	Run 0500	MWD+SC
5,802.00	6,166.00	Run 0600	MWD+SC
6,261.00	6,924.00	Run 0800	MWD+SC
7,018.00	7,868.00	Run 0900	MWD+SC
7,963.00	8,813.00	Run 1000	MWD+SC
8,907.00	9,524.00	Run 1100	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: 1.85 °/100ft      Maximum Dogleg over Survey: 16.15 °/100ft at 4,884.00 ft

Net Tortosity applicable to Plans: 0.08 °/100ft      Directional Difficulty Index: 6.274

Audit Info

**North Reference Sheet for Sec 16-T34S-R7W - Kaup 3407 #16-1H - 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 @ 1390.70ft (Nabors 102 (31.7')). Northing and Easting are relative to Kaup 3407 #16-1H

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: 1.00004178

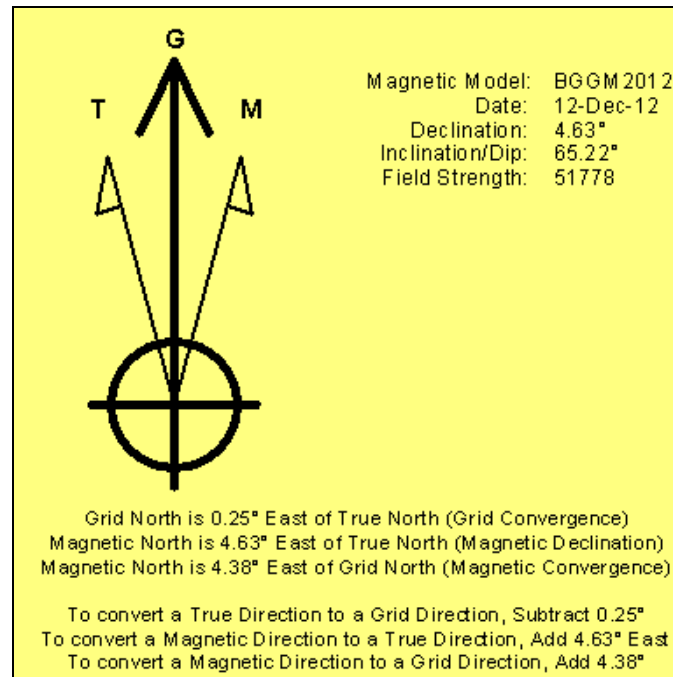
Grid Coordinates of Well: 150,979.29 ft N, 2,119,730.03 ft E

Geographical Coordinates of Well: 37° 04' 50.10" N, 098° 05' 22.57" W

Grid Convergence at Surface is: 0.25°

Based upon Minimum Curvature type calculations, at a Measured Depth of 9,524.00ft the Bottom Hole Displacement is 5,185.35ft in the Direction of 183.59° (Grid).

Magnetic Convergence at surface is: -4.38° (12 December 2012, , BGGM2012)



# T34S, R7W, 6th P.M.

SGOMI

Well location, KAUP 3407 #16-1H, located as shown in the SW 1/4 SW 1/4 of Section 16, T34S, R7W, 6th P.M., Harper County, Kansas.

## BASIS OF ELEVATION

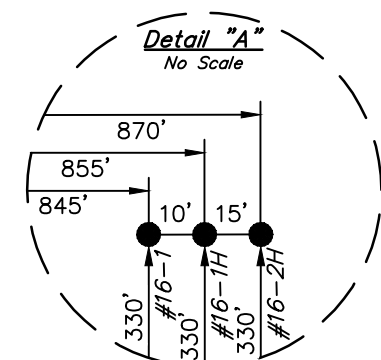
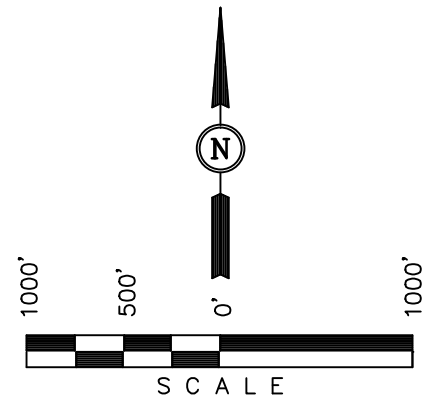
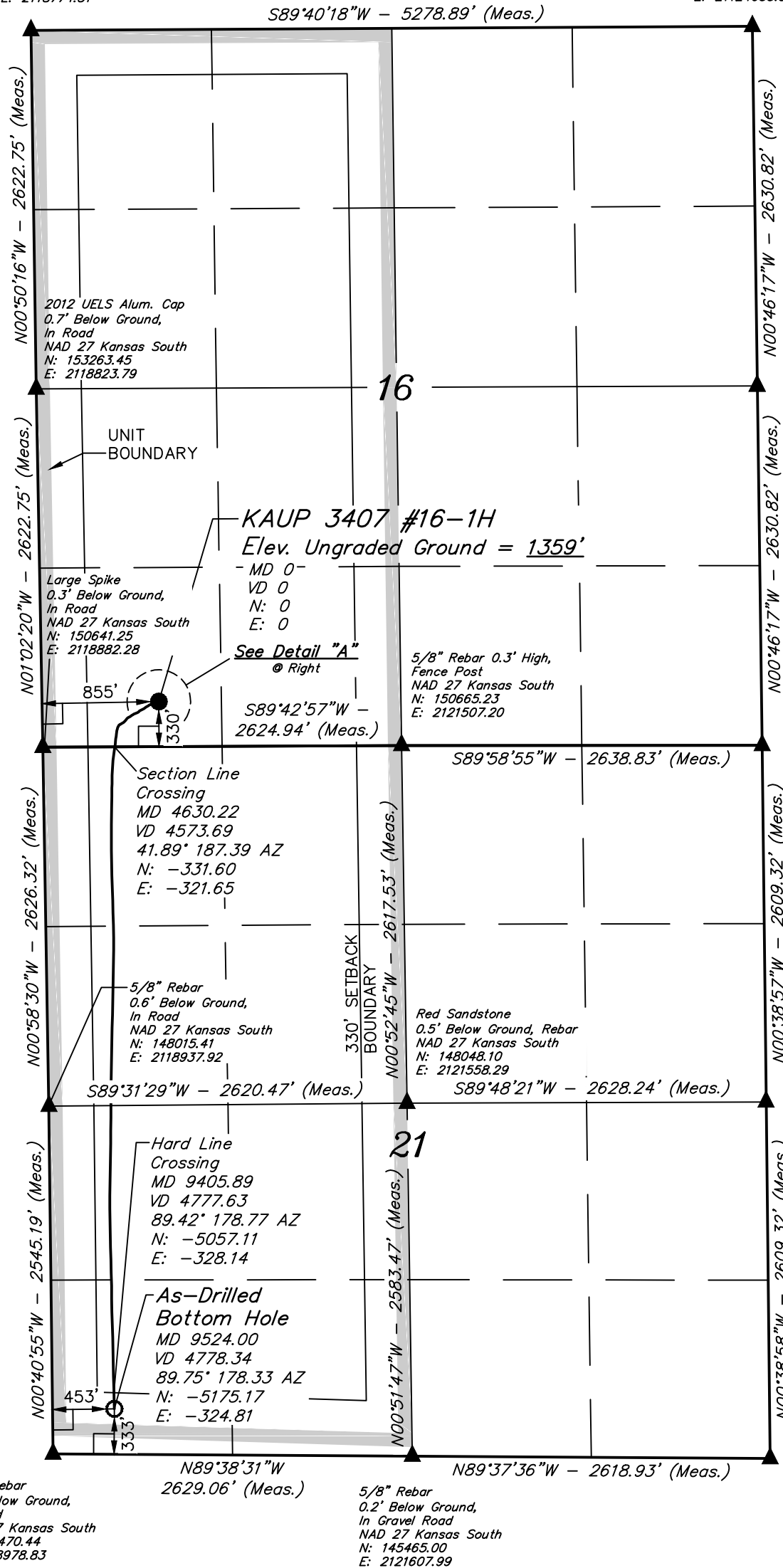
SPOT ELEVATION LOCATED AT THE NORTHEAST CORNER OF SECTION 22, T33S, R7W, 6th P.M. TAKEN FROM THE ANTHONY, QUADRANGLE, KANSAS, HARPER COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 1348 FEET.

## BASIS OF BEARINGS

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

2012 UELS Alum. Cap  
0.2' Below Ground,  
In Road  
NAD 27 Kansas South  
N: 155938.12  
E: 21124053.30

Concrete Stone  
NAD 27 Kansas South  
N: 155885.83  
E: 2118774.51



2012 UELS Alum. Cap  
0.2' Below Ground,  
In Road  
NAD 27 Kansas South  
N: 1553307.61  
E: 2124099.70

5/8" Rebar 0.4'  
Below Ground,  
in Gravel Road  
NAD 27 Kansas South  
N: 150677.09  
E: 2124146.09

2012 UELS Alum. Cap  
0.4' Below Ground,  
In Road  
NAD 27 Kansas South  
N: 148067.98  
E: 2124186.55

PK Nail in Asphalt  
NAD 27 Kansas South  
N: 145458.87  
E: 2124227.01

### 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 L. ...*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 1451  
STATE OF KANSAS

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

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b>		
85 SOUTH 200 EAST - VERNAL, UTAH 84078		
(435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 02-20-13	DATE DRAWN: 02-21-13
PARTY J.P. B.L. C.A.G.		REFERENCES G.L.O. PLAT
WEATHER HOT		FILE SGOMI

<b>NAD 83 (#16-1H TARGET BOTTOM HOLE)</b> LATITUDE = 37°03'59.02" (37.066394) LONGITUDE = 98°05'27.83" (98.091064)	<b>NAD 83 (#16-1H SURFACE LOCATION)</b> LATITUDE = 37°04'50.19" (37.080608) LONGITUDE = 98°05'23.80" (98.089944)
<b>NAD 27 (#16-1H TARGET BOTTOM HOLE)</b> LATITUDE = 37°03'58.93" (37.066369) LONGITUDE = 98°05'26.60" (98.090722) STATE PLANE NAD 27 (KANSAS SOUTH) N: 145802.33 E: 2119426.75	<b>NAD 27 (#16-1H SURFACE LOCATION)</b> LATITUDE = 37°04'50.10" (37.080583) LONGITUDE = 98°05'22.57" (98.089603) STATE PLANE NAD 27 (KANSAS SOUTH) N: 150979.29 E: 2119730.03

## Summary of Changes

Lease Name and Number: Kaup 3407 16-1H

API/Permit #: 15-077-21885-01-00

Doc ID: 1131338

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Amount of Surface Pipe Set and Cemented at	0	544
Approved Date	01/09/2013	04/04/2013
CasingAdd_Type_PctPDF_1	15% Fly Ash	Attached
CasingNumbSacksUsedPDF_1	30	Attached
CasingPurposeOfStringPDF_1	Conductor	Attached
CasingSettingDepthPDF_1	60	Attached
CasingSizeCasingSetPDF_1	18	Attached
CasingSizeHoleDrilledPDF_1	26	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
Electric Log Run?	No	Yes
Electric Log Submitted Electronically?		Yes
Elogs_PDF		Triple Combo
Formation Top Source - Log	No	Yes
Liner Run?		Yes
LocationInfoLink	<a href="https://solar.kgs.ku.edu/kcc/detail/locationInformation.cfm?section=16&amp;t">https://solar.kgs.ku.edu/kcc/detail/locationInformation.cfm?section=16&amp;t</a>	<a href="https://solar.kgs.ku.edu/kcc/detail/locationInformation.cfm?section=16&amp;t">https://solar.kgs.ku.edu/kcc/detail/locationInformation.cfm?section=16&amp;t</a>
Method Of Completion - Perf	No	Yes
Number of Feet East or West From Section Line	870	855
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		5822'
Production Interval #2		9445'
Purchaser's Name	CONDUCTOR ONLY	
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1107237	../../../../kcc/detail/operatorEditDetail.cfm?docID=1131338
TopsDepth1		4310
TopsDepth2		4418
TopsDepth3		4472
TopsDepth4		4548
TopsDepth5		4735
TopsName1	CONDUCTOR ONLY	Hushpuckney
TopsName2		Marmaton
TopsName3		Pawnee
TopsName4		Cherokee

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
TopsName5		Mississippi
Total Depth	60	9524

## Summary of Attachments

Lease Name and Number: Kaup 3407 16-1H

API: 15-077-21885-01-00

Doc ID: 1131338

Correction Number: 1

Attachment Name

KAUP 3407 #16-1H Conductor record

KAUP 3407 #16-1H Surface cement rpt

KAUP 3407 #16-1H Intermediate cement rpt

Kaup 3407 #16-1H Final Survey

KAUP #16-1-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
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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

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](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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SHELL GULF OF MEXICO, INC. (34574)	KAUP 3407-16	
<b>PETE MARTIN DRILLING (34645)</b> <b>(SET THE CONDUCTOR)</b>	1-H Conductor	1-H Mouse Hole
Call in DATE OF SPUD	11/5/2012	
spud in date	11/6/2012	11/8/2012
T.D date	11/6/2012	11/8/2012
Size Hole Drilled	26"	20"
Size Caseing Set (in O.D )	18"	14"
conductor wall thickness	250	188
Weight Lbs./Ft.	47.76	27.76
Setting Depth	60'	77"
Type of Cement	type1/2 portland cement	Type 1/2 portland cement
Cubic yards of cement	5cy	7cy
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 15-077-21885-01-00  
Kaup 3407 16-1H  
SW/4 Sec.16-34S-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