



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1090360
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: _____

1090360

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shell Gulf of Mexico Inc.
Well Name	Davis 3407 27-1H
Doc ID	1090360

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
1	P-Sleeve 10	0 gals fluid & 0# proppant	9287
1	P-Sleeve 9	202314 gals fluid, 105467# proppant	8862
1	P-Sleeve 8	183666 gals fluid, 105488# proppant	8739
1	P-Sleeve 7	175056 gals fluid, 103341# proppant	8050
1	P-Sleeve 6	160104 gals fluid, 100546# proppant	7629
1	P-Sleeve 5	206850 gals fluid, 106349# proppant	7236
1	P-Sleeve 4	183918 gals fluid, 103659# proppant	6853
1	P-Sleeve 3	167160 gals fluid, 112281# proppant	6426
1	P-Sleeve 2	116634 gals fluid, 116634# proppant	6002
1	P-Sleeve 1	170814 gals fluid, 105521# proppant	5887

Form	ACO1 - Well Completion
Operator	Shell Gulf of Mexico Inc.
Well Name	Davis 3407 27-1H
Doc ID	1090360

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	47.44	60	1/2 Portland Cmt	42	15% Fly Ash
Surface	12.25	9.625	36	801	Class C	500	See attached
Intermediate	8.75	7	23	5377	Class C	990	See attached
Liner	6.125	4.5	11.6	9368	N/A	0	

CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 23-MAR-12	F.R. # 1001897133	SERV. SUPV. GREGORY SWRIGHT Jonathan Schulz
LEASE & WELL NAME DAVIS 3407 27-1H - API 15077218230100	LOCATION		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, Phc	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
Fresh Water			8.34				20	
Class C + 2% CaCl + .25pps Celloflake + 0.01% stat		500	14.8	1.35	6.34	02:45	120.2	75.47
Fresh Water			8.34				59	
Available Mix Water <u>400</u> Bbl.		Available Displ. Fluid <u>305</u> Bbl.		TOTAL			<u>199.2</u>	<u>75.47</u>

HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
12.25		820	8.921	9.625	36	CSG	801	801	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	FRESH WATER	8.34

DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	WATER
58.3	BBLS	Fresh Water	8.34	255					3568	2000	Frac tank

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: Arrive on location @ 1730, Still making hole, Pulling drill pipe, Running 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 3850 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
17:30						Arrive on Location on 3/23/2012	
14:18	109		3.8	5	WATER	load pumps & lines	
14:21	3850				WATER	pressure test lines	
14:26	177		2.8		WATER	open well/start water ahead	
14:33	56		2.8	20	WATER	end water ahead start slurry @ 14.8ppg	
14:50	123		3.8	62	SLURRY	bbls pumped when slurry @ shoe	
15:07	50		3.4	120	SLURRY	end slurry/ shutdown	
15:09	29		2.8		WATER	drop TRP/ start displacement	
15:12	102		2.8	5	WATER	bbls of displacement pumped when cement to surface	
15:26	145		2.8	59	WATER	bbls pumped/ shutdown/ no bump	
11:30	130					Check float/ holding	
						50bbls cement return to surface	
						Thanks for using BHI Pressure Pumping	
						Jonathan Schulz & Crew	

BUMPED PLUG Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	PSI TO BUMP PLUG 207	TEST FLOAT EQUIP. Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	BBL.CMT RETURNS/ REVERSED 50	TOTAL BBL. PUMPED 205	PSI LEFT ON CSG 0	SPOT TOP OUT CEMENT Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	SERVICE SUPERVISOR SIGNATURE:
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CEMENT JOB REPORT



CUSTOMER SHELL WESTERN E & P INC	DATE 25-APR-12	F.R. # 1001903972	SERV. SUPV. JUSTIN D STAMPER
LEASE & WELL NAME DAVIS 3407 #27-1H - API 15077218230000	LOCATION 27-34S-7W		COUNTY-PARISH-BLOCK Harper Kansas
DISTRICT McAlester	DRILLING CONTRACTOR RIG #		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
SEAL BOND			8.35				40	
15:85:8(POZ,C,GEL)+10%SALT+.5%SMS+4PPS KOLS		790	12.4	2.45	13.5	04:18	345	254.14
50:50:2(POZ,C,GEL)+4#KOLSL+.15%SMS+.3%FL52		200	14.2	1.32	5.66	02:35	47	26.94
WATER			8.34				210	
Available Mix Water <u>1000</u> Bbl.		Available Displ. Fluid <u>1000</u> Bbl.		TOTAL			<u>642</u>	<u>281.08</u>

HOLE			TBG-CSG-D.P.						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
8.75		5386	6.366	7	23	CSG	5377	5377	L-80	5377	5332	

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	7	8RD	WATER BASED MU	9

DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	FRAC TANK
210.5	BBLS	WATER	8.34	1100					5072	3000	FRAC TANK

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

PRESSURE/RATE DETAIL						EXPLANATION					
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>					
	PIPE	ANNULUS				TEST LINES 5500 PSI					
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>					
04:30						ARRIVE ON LOCATION					
12:00						SAFETY MEETING					
13:30	5500				WATER	TEST LINES, RIG PUMP SPACER, START LEAD SLURRY					
15:28	130		3	345	LEAD	FINISH LEAD, START TAIL SLURRY					
15:39	150		3	47	TAIL	FINISH TAIL SLURRY, SHUT DOWN DROP PLUG AND DISPLACE					
16:36	1300		3.7	200	WATER	SLOW TO BUMP PLUG					
16:41	1100		2	10	WATER	SHUT DOWN, DID NOT BUMP, CHECK FLOAT					
						RECEIVED .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:
Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	0	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	0	583	0	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

Shell Exploration & Production Co. Inc.

Harper Co. (NAD-27)

Sec 34-T34S-R07W

Davis 3407 27-1H/ Job# 9342167/ Nab 180

Wellbore #1

Design: Wellbore #1

Sperry Drilling Services

Combo Report With Grid North & True North

10 May, 2012

Well Coordinates: 140,195.55 N, 2,126,369.90 E (37° 03' 03.19" N, 098° 04' 01.26" W)

Ground Level: 1,402.00 ft

Local Coordinate Origin:

Centered on Well Davis 3407 27-1H/ Job# 9342167/ Nab 180

Viewing Datum:

WELL @ 1425.80ft (Original Well Elev)

TVDs to System:

N

North Reference:

True

Unit System:

API-US New

Version: 2003.21 Build: 43

HALLIBURTON

Design Report for Davis 3407 27-1H/ Job# 9342167/ 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	359.73	0.00	-1,425.80	0.00	0.00 N	0.00 E	140,195.55	2,126,369.90	0.00	0.00	
142.00	0.37	72.90	73.17	-1,283.80	142.00	0.13 N	0.44 E	140,195.68	2,126,370.34	0.26	0.44	First MWD Survey
235.00	0.25	65.94	66.21	-1,190.80	235.00	0.30 N	0.91 E	140,195.86	2,126,370.82	0.14	0.94	
332.00	0.41	48.83	49.10	-1,093.80	332.00	0.61 N	1.37 E	140,196.17	2,126,371.27	0.19	1.49	
426.00	0.36	61.00	61.27	-999.81	425.99	0.98 N	1.88 E	140,196.54	2,126,371.78	0.10	2.11	
519.00	0.31	42.68	42.95	-906.81	518.99	1.30 N	2.31 E	140,196.86	2,126,372.21	0.13	2.65	
612.00	0.34	60.30	60.57	-813.81	611.99	1.62 N	2.72 E	140,197.18	2,126,372.62	0.11	3.17	
705.00	0.04	41.32	41.59	-720.81	704.99	1.78 N	2.98 E	140,197.34	2,126,372.88	0.33	3.47	
755.00	0.12	21.44	21.71	-670.81	754.99	1.84 N	3.01 E	140,197.41	2,126,372.91	0.17	3.53	
890.00	0.00	59.82	60.09	-535.81	889.99	1.97 N	3.07 E	140,197.54	2,126,372.96	0.09	3.64	
983.00	0.22	49.71	49.98	-442.81	982.99	2.09 N	3.20 E	140,197.65	2,126,373.10	0.24	3.82	
1,077.00	0.18	354.11	354.38	-348.81	1,076.99	2.35 N	3.33 E	140,197.92	2,126,373.22	0.20	4.06	
1,170.00	0.50	235.23	235.50	-255.81	1,169.99	2.27 N	2.98 E	140,197.83	2,126,372.87	0.65	3.72	
1,263.00	0.64	181.20	181.47	-162.82	1,262.98	1.52 N	2.63 E	140,197.08	2,126,372.53	0.57	3.04	
1,358.00	0.28	158.46	158.73	-67.82	1,357.98	0.77 N	2.70 E	140,196.33	2,126,372.60	0.42	2.71	
1,453.00	0.26	199.72	199.99	27.18	1,452.98	0.35 N	2.71 E	140,195.91	2,126,372.61	0.20	2.50	
1,548.00	0.56	175.53	175.80	122.18	1,547.98	0.31 S	2.67 E	140,195.25	2,126,372.58	0.36	2.12	
1,738.00	0.14	86.64	86.91	312.17	1,737.97	1.23 S	2.97 E	140,194.34	2,126,372.88	0.30	1.89	
1,928.00	0.28	139.87	140.14	502.17	1,927.97	1.57 S	3.50 E	140,194.00	2,126,373.41	0.12	2.17	
2,118.00	0.43	93.55	93.82	692.17	2,117.97	1.97 S	4.51 E	140,193.60	2,126,374.42	0.16	2.82	
2,307.00	0.43	156.67	156.94	881.17	2,306.97	2.67 S	5.49 E	140,192.90	2,126,375.41	0.24	3.29	
2,497.00	0.57	113.15	113.42	1,071.16	2,496.96	3.71 S	6.64 E	140,191.87	2,126,376.56	0.21	3.73	
2,687.00	0.96	83.33	83.60	1,261.14	2,686.94	3.90 S	9.09 E	140,191.69	2,126,379.01	0.29	5.72	
2,877.00	0.34	66.40	66.67	1,451.13	2,876.93	3.50 S	11.19 E	140,192.10	2,126,381.11	0.34	7.72	
2,972.00	0.29	108.94	109.21	1,546.13	2,971.93	3.47 S	11.68 E	140,192.13	2,126,381.60	0.25	8.15	
3,162.00	0.52	278.13	278.40	1,736.13	3,161.93	3.50 S	11.28 E	140,192.10	2,126,381.20	0.42	7.79	
3,352.00	0.63	23.21	23.48	1,926.12	3,351.92	2.42 S	10.84 E	140,193.18	2,126,380.76	0.48	7.99	
3,542.00	0.71	355.45	355.72	2,116.11	3,541.91	0.29 S	11.17 E	140,195.31	2,126,381.07	0.17	9.38	
3,731.00	0.57	4.01	4.28	2,305.10	3,730.90	1.82 N	11.15 E	140,197.42	2,126,381.05	0.09	10.46	
3,921.00	0.35	352.18	352.45	2,495.09	3,920.89	3.34 N	11.14 E	140,198.94	2,126,381.03	0.13	11.25	
3,953.00	0.33	30.05	30.32	2,527.09	3,952.89	3.51 N	11.18 E	140,199.11	2,126,381.07	0.69	11.37	
4,015.00	0.47	179.33	179.60	2,589.09	4,014.89	3.41 N	11.27 E	140,199.01	2,126,381.16	1.25	11.40	
4,047.00	2.35	179.57	179.84	2,621.08	4,046.88	2.62 N	11.27 E	140,198.23	2,126,381.17	5.88	10.99	
4,078.00	5.04	174.12	174.39	2,652.01	4,077.81	0.63 N	11.41 E	140,196.24	2,126,381.31	8.74	10.06	
4,110.00	7.38	173.15	173.42	2,683.82	4,109.62	2.81 S	11.78 E	140,192.80	2,126,381.70	7.32	8.59	
4,141.00	9.90	172.90	173.17	2,714.47	4,140.27	7.43 S	12.33 E	140,188.18	2,126,382.27	8.13	6.64	
4,173.00	12.31	173.06	173.33	2,745.86	4,171.66	13.55 S	13.05 E	140,182.06	2,126,383.02	7.53	4.06	

Design Report for Davis 3407 27-1H/ Job# 9342167/ 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			
4,205.00	14.90	174.60	174.87	2,776.96	4,202.76	21.04 S	13.81 E	140,174.57	2,126,383.82	8.17	0.81	
4,236.00	17.81	176.41	176.68	2,806.71	4,232.51	29.74 S	14.45 E	140,165.87	2,126,384.49	9.53	-3.19	
4,268.00	19.65	177.49	177.76	2,837.01	4,262.81	40.01 S	14.94 E	140,155.61	2,126,385.03	5.85	-8.12	
4,300.00	21.84	178.58	178.85	2,866.93	4,292.73	51.34 S	15.27 E	140,144.29	2,126,385.41	6.95	-13.75	
4,331.00	24.14	178.83	179.10	2,895.47	4,321.27	63.44 S	15.48 E	140,132.18	2,126,385.68	7.43	-19.88	
4,363.00	26.24	178.94	179.21	2,924.43	4,350.23	77.06 S	15.68 E	140,118.57	2,126,385.95	6.56	-26.81	
4,394.00	28.44	176.84	177.11	2,951.96	4,377.76	91.28 S	16.15 E	140,104.34	2,126,386.48	7.75	-33.83	
4,425.00	30.05	175.82	176.09	2,979.01	4,404.81	106.40 S	17.05 E	140,089.23	2,126,387.45	5.44	-40.95	
4,457.00	32.09	173.46	173.73	3,006.42	4,432.22	122.85 S	18.53 E	140,072.79	2,126,389.00	7.42	-48.27	
4,489.00	34.42	174.37	174.64	3,033.18	4,458.98	140.30 S	20.30 E	140,055.34	2,126,390.86	7.45	-55.86	
4,520.00	37.89	174.86	175.13	3,058.20	4,484.00	158.52 S	21.93 E	140,037.14	2,126,392.57	11.23	-63.97	
4,552.00	41.37	174.32	174.59	3,082.84	4,508.64	178.84 S	23.76 E	140,016.82	2,126,394.49	10.93	-73.01	
4,583.00	44.16	175.25	175.52	3,105.60	4,531.40	199.81 S	25.57 E	139,995.86	2,126,396.40	9.23	-82.41	
4,615.00	45.16	174.83	175.10	3,128.36	4,554.16	222.23 S	27.41 E	139,973.45	2,126,398.35	3.26	-92.53	
4,647.00	46.63	175.62	175.89	3,150.63	4,576.43	245.13 S	29.21 E	139,950.56	2,126,400.25	4.92	-102.94	
4,678.00	48.00	175.77	176.04	3,171.65	4,597.45	267.86 S	30.82 E	139,927.83	2,126,401.96	4.43	-113.43	
4,710.00	50.63	177.44	177.71	3,192.51	4,618.31	292.09 S	32.13 E	139,903.61	2,126,403.39	9.12	-124.94	
4,741.00	53.14	178.03	178.30	3,211.64	4,637.44	316.46 S	32.98 E	139,879.24	2,126,404.35	8.23	-136.93	
4,773.00	55.20	177.89	178.16	3,230.37	4,656.17	342.39 S	33.78 E	139,853.32	2,126,405.27	6.45	-149.77	
4,805.00	57.60	177.72	177.99	3,248.08	4,673.88	369.03 S	34.68 E	139,826.69	2,126,406.29	7.51	-162.90	
4,836.00	58.18	177.73	178.00	3,264.56	4,690.36	395.27 S	35.59 E	139,800.45	2,126,407.33	1.87	-175.81	Start of Tangent
4,868.00	58.69	177.21	177.48	3,281.31	4,707.11	422.52 S	36.67 E	139,773.21	2,126,408.54	2.11	-189.10	
4,900.00	59.41	176.72	176.99	3,297.77	4,723.57	449.93 S	37.99 E	139,745.80	2,126,409.99	2.61	-202.27	
4,931.00	60.39	176.47	176.74	3,313.31	4,739.11	476.71 S	39.46 E	139,719.03	2,126,411.58	3.24	-214.98	
4,963.00	61.50	175.93	176.20	3,328.85	4,754.65	504.63 S	41.18 E	139,691.12	2,126,413.43	3.77	-228.08	
4,995.00	62.63	175.36	175.63	3,343.85	4,769.65	532.82 S	43.20 E	139,662.93	2,126,415.58	3.87	-241.07	End of Tangent
5,026.00	64.68	173.49	173.76	3,357.60	4,783.40	560.48 S	45.77 E	139,635.29	2,126,418.28	8.54	-253.30	
5,058.00	67.45	172.63	172.90	3,370.58	4,796.38	589.53 S	49.17 E	139,606.26	2,126,421.81	9.00	-265.55	
5,090.00	71.52	171.98	172.25	3,381.80	4,807.60	619.24 S	53.04 E	139,576.56	2,126,425.82	12.86	-277.74	
5,121.00	74.53	173.91	174.18	3,390.85	4,816.65	648.68 S	56.54 E	139,547.14	2,126,429.46	11.39	-290.11	
5,153.00	77.12	175.40	175.67	3,398.68	4,824.48	679.58 S	59.28 E	139,516.25	2,126,432.34	9.27	-303.89	
5,185.00	78.18	175.10	175.37	3,405.53	4,831.33	710.74 S	61.73 E	139,485.10	2,126,434.93	3.44	-318.06	
5,216.00	78.75	174.97	175.24	3,411.73	4,837.53	741.01 S	64.21 E	139,454.84	2,126,437.56	1.88	-331.73	
5,248.00	79.57	174.13	174.40	3,417.74	4,843.54	772.31 S	67.05 E	139,423.56	2,126,440.54	3.64	-345.63	
5,280.00	82.74	174.33	174.60	3,422.66	4,848.46	803.78 S	70.08 E	139,392.10	2,126,443.72	9.93	-359.46	
5,311.00	85.02	174.67	174.94	3,425.97	4,851.77	834.48 S	72.89 E	139,361.42	2,126,446.67	7.44	-373.08	
5,403.00	88.03	175.92	176.19	3,431.54	4,857.34	926.02 S	79.99 E	139,269.91	2,126,454.19	3.54	-414.77	

Design Report for Davis 3407 27-1H/ Job# 9342167/ 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			
5,435.00	88.95	175.91	176.18	3,432.39	4,858.19	957.94 S	82.12 E	139,238.00	2,126,456.47	2.88	-429.60	
5,528.00	87.90	175.47	175.74	3,434.94	4,860.74	1,050.67 S	88.67 E	139,145.30	2,126,463.45	1.22	-472.38	
5,621.00	89.04	174.41	174.68	3,437.43	4,863.23	1,143.31 S	96.43 E	139,052.70	2,126,471.64	1.67	-514.08	
5,715.00	88.05	173.51	173.78	3,439.81	4,865.61	1,236.80 S	105.88 E	138,959.26	2,126,481.52	1.42	-554.79	
5,808.00	88.12	172.09	172.36	3,442.92	4,868.72	1,329.07 S	117.09 E	138,867.04	2,126,493.17	1.53	-593.34	
5,901.00	89.91	172.20	172.47	3,444.52	4,870.32	1,421.24 S	129.36 E	138,774.93	2,126,505.87	1.93	-630.95	
5,963.00	90.22	172.99	173.26	3,444.45	4,870.25	1,482.76 S	137.06 E	138,713.45	2,126,513.85	1.37	-656.47	
6,057.00	89.57	173.13	173.40	3,444.62	4,870.42	1,576.12 S	147.98 E	138,620.14	2,126,525.20	0.71	-695.85	
6,149.00	89.05	174.22	174.49	3,445.73	4,871.53	1,667.60 S	157.69 E	138,528.71	2,126,535.33	1.31	-735.29	
6,243.00	90.92	174.33	174.60	3,445.75	4,871.55	1,761.17 S	166.62 E	138,435.18	2,126,544.70	1.99	-776.47	
6,336.00	85.89	176.02	176.29	3,448.34	4,874.14	1,853.81 S	174.00 E	138,342.58	2,126,552.51	5.71	-818.49	
6,429.00	87.72	175.53	175.80	3,453.53	4,879.33	1,946.44 S	180.41 E	138,249.98	2,126,559.35	2.04	-861.34	
6,524.00	90.43	175.73	176.00	3,455.06	4,880.86	2,041.17 S	187.20 E	138,155.27	2,126,566.58	2.86	-904.96	
6,619.00	90.96	176.93	177.20	3,453.91	4,879.71	2,136.00 S	192.83 E	138,060.48	2,126,572.65	1.38	-949.61	
6,713.00	90.37	176.87	177.14	3,452.82	4,878.62	2,229.87 S	197.47 E	137,966.62	2,126,577.73	0.63	-994.62	
6,807.00	88.00	178.98	179.25	3,454.15	4,879.95	2,323.81 S	200.43 E	137,872.70	2,126,581.13	3.38	-1,041.09	
6,902.00	88.24	178.84	179.11	3,457.27	4,883.07	2,418.74 S	201.79 E	137,777.77	2,126,582.93	0.29	-1,089.45	
6,997.00	90.77	178.42	178.69	3,458.09	4,883.89	2,513.72 S	203.62 E	137,682.81	2,126,585.19	2.70	-1,137.43	
7,092.00	87.66	177.55	177.82	3,459.39	4,885.19	2,608.65 S	206.51 E	137,587.89	2,126,588.52	3.40	-1,184.48	
7,186.00	89.41	177.82	178.09	3,461.79	4,887.59	2,702.56 S	209.86 E	137,494.00	2,126,592.31	1.88	-1,230.60	
7,281.00	88.52	178.43	178.70	3,463.51	4,889.31	2,797.50 S	212.52 E	137,399.07	2,126,595.42	1.14	-1,277.86	
7,376.00	88.73	177.92	178.19	3,465.79	4,891.59	2,892.44 S	215.10 E	137,304.15	2,126,598.43	0.58	-1,325.18	
7,471.00	89.02	177.96	178.23	3,467.66	4,893.46	2,987.37 S	218.07 E	137,209.23	2,126,601.84	0.31	-1,372.17	
7,566.00	89.69	177.30	177.57	3,468.73	4,894.53	3,082.30 S	221.55 E	137,114.31	2,126,605.76	0.99	-1,418.71	
7,661.00	88.55	176.74	177.01	3,470.18	4,895.98	3,177.18 S	226.04 E	137,019.46	2,126,610.69	1.34	-1,464.37	
7,756.00	89.44	175.95	176.22	3,471.85	4,897.65	3,272.00 S	231.65 E	136,924.67	2,126,616.74	1.25	-1,509.04	
7,851.00	91.17	175.48	175.75	3,471.34	4,897.14	3,366.76 S	238.30 E	136,829.94	2,126,623.83	1.89	-1,552.79	
7,946.00	90.22	176.46	176.73	3,470.19	4,895.99	3,461.55 S	244.53 E	136,735.18	2,126,630.50	1.44	-1,596.92	
8,041.00	91.69	176.51	176.78	3,468.61	4,894.41	3,556.38 S	249.90 E	136,640.37	2,126,636.32	1.55	-1,641.80	
8,135.00	90.28	174.65	174.92	3,466.99	4,892.79	3,650.11 S	256.70 E	136,546.67	2,126,643.56	2.48	-1,684.89	
8,230.00	89.66	175.75	176.02	3,467.04	4,892.84	3,744.82 S	264.21 E	136,452.01	2,126,651.50	1.33	-1,727.88	
8,325.00	89.66	176.78	177.05	3,467.61	4,893.41	3,839.64 S	269.95 E	136,357.21	2,126,657.68	1.08	-1,772.44	
8,420.00	87.60	176.10	176.37	3,469.88	4,895.68	3,934.45 S	275.40 E	136,262.43	2,126,663.57	2.28	-1,817.25	
8,515.00	92.66	177.89	178.16	3,469.66	4,895.46	4,029.31 S	279.93 E	136,167.59	2,126,668.54	5.65	-1,862.86	
8,609.00	85.12	176.74	177.01	3,471.48	4,897.28	4,123.14 S	283.89 E	136,073.78	2,126,672.94	8.11	-1,908.42	
8,704.00	86.39	176.38	176.65	3,478.51	4,904.31	4,217.73 S	289.13 E	135,979.22	2,126,678.61	1.39	-1,953.29	
8,799.00	89.88	174.37	174.64	3,481.61	4,907.41	4,312.38 S	296.34 E	135,884.60	2,126,686.26	4.24	-1,996.51	

Design Report for Davis 3407 27-1H/ Job# 9342167/ Nab 180 - Wellbore #1

Measured Depth (ft)	Inclination (°)	Grid Azimuth (°)	True Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates Northing (ft)	Local Coordinates Easting (ft)	Map Coordinates Northing (ft)	Map Coordinates Easting (ft)	Dogleg Rate (°/100ft)	Vertical Section (ft)	Comments
8,894.00	88.95	174.75	175.02	3,482.58	4,908.38	4,406.99 S	304.90 E	135,790.03	2,126,695.26	1.06	-2,038.56	
8,989.00	90.12	175.88	176.15	3,483.35	4,909.15	4,501.70 S	312.21 E	135,695.35	2,126,703.01	1.71	-2,081.72	
9,084.00	88.74	175.44	175.71	3,484.29	4,910.09	4,596.46 S	318.95 E	135,600.63	2,126,710.20	1.52	-2,125.39	
9,179.00	87.59	174.50	174.77	3,487.33	4,913.13	4,691.08 S	326.83 E	135,506.05	2,126,718.52	1.56	-2,168.02	
9,274.00	90.46	174.05	174.32	3,488.95	4,914.75	4,785.62 S	335.86 E	135,411.55	2,126,727.98	3.06	-2,209.64	
9,334.00	89.41	172.82	173.09	3,489.02	4,914.82	4,845.26 S	342.44 E	135,351.94	2,126,734.84	2.70	-2,235.13	Last MWD Survey
9,390.00	89.41	172.82	173.09	3,489.59	4,915.39	4,900.85 S	349.17 E	135,296.38	2,126,741.83	0.00	-2,258.38	Projection to TD

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
142.00	142.00	0.13	0.44	First MWD Survey
4,836.00	4,690.36	-395.27	35.59	Start of Tangent
4,995.00	4,769.65	-532.82	43.20	End of Tangent
9,334.00	4,914.82	-4,845.26	342.44	Last MWD Survey
9,390.00	4,915.39	-4,900.85	349.17	Projection to TD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (ft)	Origin +E/-W (ft)	Start TVD (ft)
User	No Target (Freehand)	58.56	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
142.00	9,390.00	MWD	MWD+SC

Design Targets

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

Design Report for Davis 3407 27-1H/ Job# 9342167/ Nab 180 - Wellbore #1

Directional Difficulty Index

Average Dogleg over Survey:	1.95 °/100ft	Maximum Dogleg over Survey:	12.86 °/100ft at 5,090.00 ft
Net Tortosity applicable to Plans:	0.98 °/100ft	Directional Difficulty Index:	6.239

Audit Info

North Reference Sheet for Sec 34-T34S-R07W - Davis 3407 27-1H/ Job# 9342167/ 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 @ 1425.80ft (Original Well Elev). Northing and Easting are relative to Davis 3407 27-1H/ Job# 9342167/ 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: 1.00004941

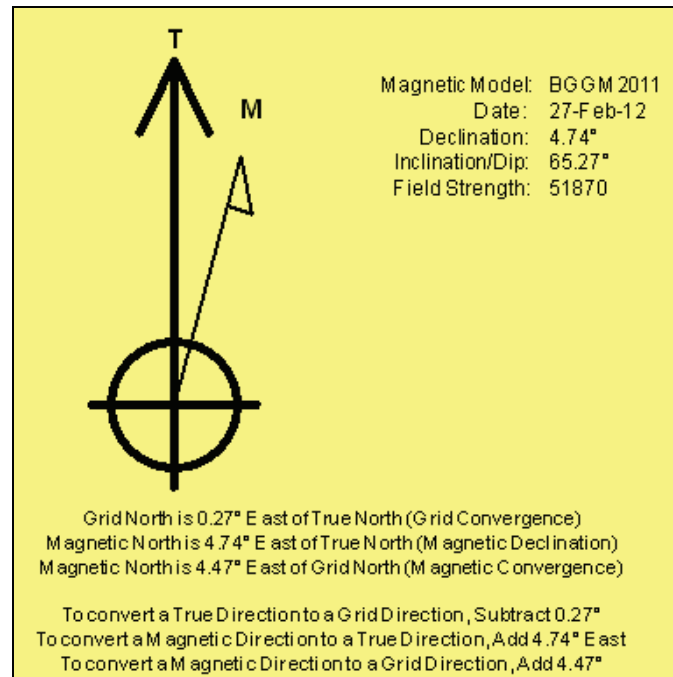
Grid Coordinates of Well: 140,195.55 ft N, 2,126,369.90 ft E

Geographical Coordinates of Well: 37° 03' 03.19" N, 098° 04' 01.26" W

Grid Convergence at Surface is: 0.27°

Based upon Minimum Curvature type calculations, at a Measured Depth of 9,390.00ft the Bottom Hole Displacement is 4,913.27ft in the Direction of 175.92° (True).

Magnetic Convergence at surface is: -4.47° (27 February 2012, , BGGM2011)



T34S, R7W, 6th P.M.

1/2" Rebar, 0.2' Below Ground, In Abandoned Road Intersection
NAD 27 Kansas South
N: 140197.42
E: 2124344.79

5/8" Rebar, 0.4' High, Fence Corner
NAD 27 Kansas South
N: 140195.22
E: 2126998.33

1/2" Rebar, 0.3' Below Ground, Steel Post
NAD 27 Kansas South
N: 140188.19
E: 2129654.79

SGOMI

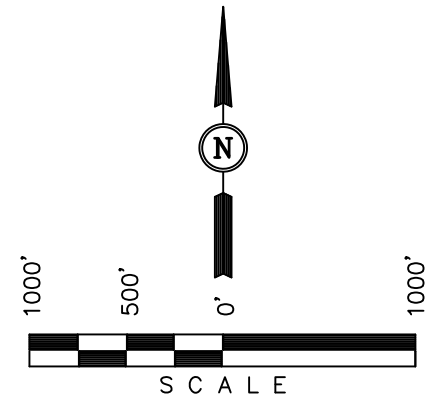
Well location, DAVIS 3407 #27-1H, located as shown on the Line Between the SE 1/4 SW 1/4 of Section 27 and the NE 1/4 NW 1/4 of section 34, T34S, R7W, 6th P.M., Harper County, Kansas.

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

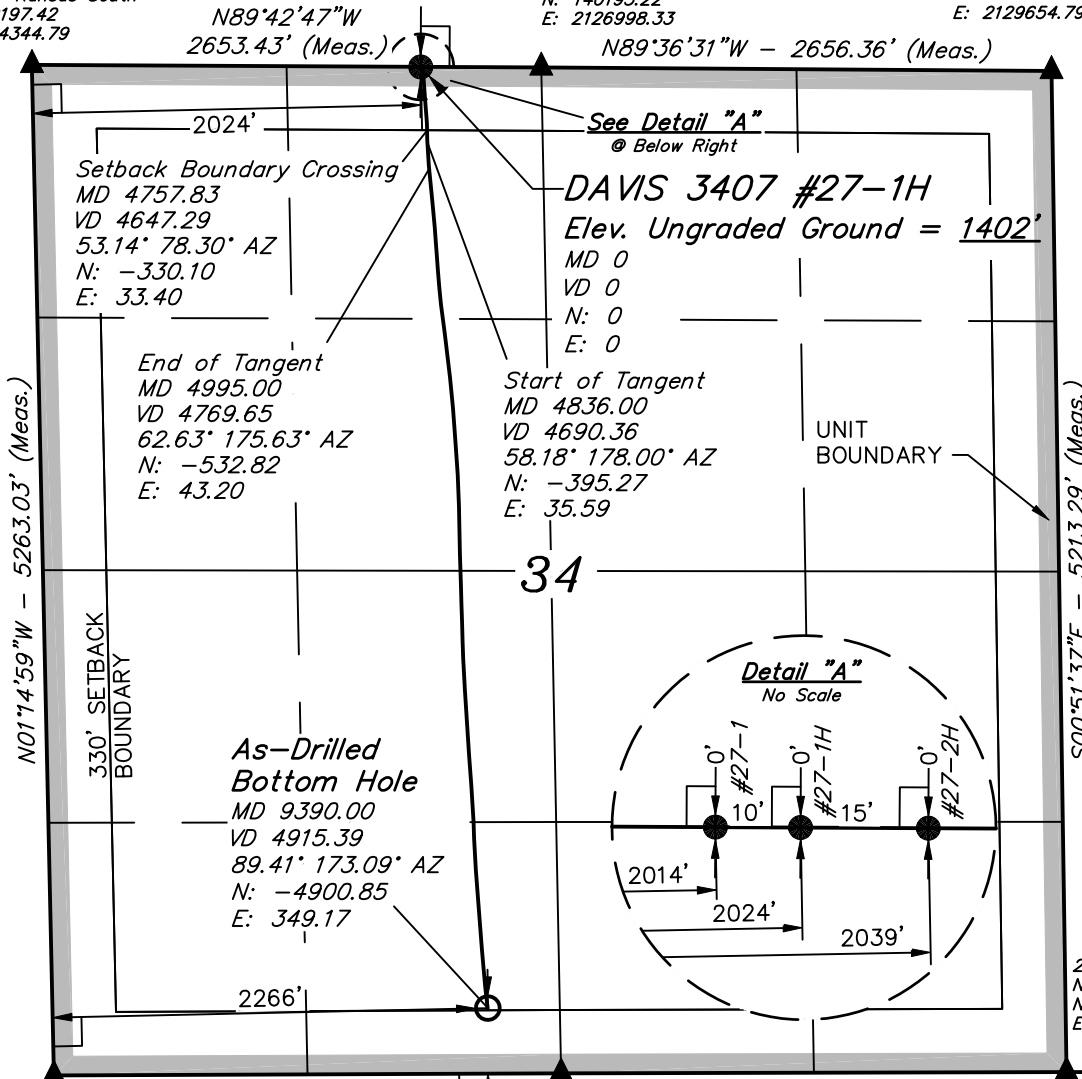
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



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.

Robert S. 1451
REGISTERED LAND SURVEYOR
REGISTRATION NO. 1451
STATE OF KANSAS 06-22-12



Spike, 0.1' Below Ground, In Road Intersection
NAD 27 Kansas South
N: 134935.92
E: 2124481.55

5/8" Rebar, 0.4' High, E-W-N Fence
NAD 27 Kansas South
N: 134958.22
E: 2127122.79

2" Alum. Cap
NAD 27 Kansas South
N: 134975.60
E: 2129754.84

T34S T35S

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

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

NAD 83 (AS-DRILLED BOTTOM HOLE) LATITUDE = 37°02'14.82" (37.037450) LONGITUDE = 98°03'58.21" (98.066169)	NAD 83 (SURFACE LOCATION) LATITUDE = 37°03'03.28" (37.050911) LONGITUDE = 98°04'02.49" (98.067358)
NAD 27 (AS-DRILLED BOTTOM HOLE) LATITUDE = 37°02'14.73" (37.037425) LONGITUDE = 98°03'56.98" (98.065828)	NAD 27 (SURFACE LOCATION) LATITUDE = 37°03'03.19" (37.050886) LONGITUDE = 98°04'01.26" (98.067017)
STATE PLANE NAD 27 (KANSAS SOUTH) N: 135296.09 E: 2126739.54	STATE PLANE NAD 27 (KANSAS SOUTH) N: 140195.66 E: 2126369.90

SCALE 1" = 1000'	DATE SURVEYED: 11-05-11	DATE DRAWN: 06-22-12
PARTY L.S. K.H. C.C.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE SGOMI	

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

Sam Brownback, Governor

August 13, 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 15-077-21823-01-00
Davis 3407 27-1H
SW/4 Sec.27-34S-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