



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1110918
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: _____



1110918

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Harold 3120 2-26H
Doc ID	1110918

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8787-8797	4901 bbls of water, 36 bbls acid, 75M lbs sand, 6775 TLTR	
5	8331-8632	4395 bbls water, 36 bbls acid, 75M lbs sd, 11378 TLTR	
5	7824-8210	4394 bbls of water, 36 bbls acid, 76M lbs sd, 15892 TLTR	
5	7338-7692	4384 bbls water, 36 bbls acid, 75M lbs sd, 20402 TLTR	
5	6975-7244	4309 bbls of water, 36 bbls acid, 75M lbs sand, 24797 TLTR	
5	6604-6872	4331 bbls of water, 36 bbls acid, 75M lbs sand, 29205 TLTR	
5	6121-6512	4404 bbls of water, 36 bbls acid, 74M lbs sand, 33701 TLTR	
5	5794-6080	4285 bbls of water, 36 bbls acid, 75M lbs sand, 38041 TLTR	
5	5382-5632	4442 bbls of water, 36 bbls acid, 73M lbs sand, TLTR	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Harold 3120 2-26H
Doc ID	1110918

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	24	20	75	90	Pro Oilfield Services 14 sack grout	15	none
Surface	12.25	9.63	36	957	O-Tex Lite Premium Plus/ Premium Plus (Class C)	550	(6% gel) 2% Calcium Chloride, 1/4 pps Cello-Flake, .5% C-41P
Intermediate	8.75	7	26	5536	O-Tex 50/50 Poz Premium/ Premium	275	4% gel, .4% C-12, .1% C-37, .5% C-41P, 2 lb/sk Phenoseal
Production Liner	6.12	4.5	11.6	8787	O-Tex 50/50 Premium Poz	450	(4% gel) .4% C12, .1% C37, .5% C-41P, 2 lb/sk Phenoseal

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 29, 2013

Tiffany Golay
SandRidge Exploration and Production LLC
123 ROBERT S. KERR AVE
OKLAHOMA CITY, OK 73102-6406

Re: ACO1
API 15-033-21677-01-00
Harold 3120 2-26H
SE/4 Sec.26-31S-20W
Comanche 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,
Tiffany Golay



P.O. BOX 3660
HOUMA, LA 70361-3660

Customer : SAN400

BILL TO : SANDRIDGE ENERGY
123 ROBERT S KERR AVENUE
OKLAHOMA CITY, OK 73102-6406
PHONE: (405) 753-5500 FAX: ()

Division : 0701
Delivery Ticket : 3060
Delivery Date : 11/5/2012
Office : 12/1/1901

Ordered By :
Lease/Well : HAROLD 3120 #2-26H
Rig Name/Number : LARIATE 45
AFE Number :
Site Contact :
:
:
:

Qty	Description	Min / Standby / Usage Charge	Add Day	Unit Price	Start Date / Stop Date	Extended Line Total
1	HAROLD 3120 #2-26H	\$24,575.00	\$0.00	\$24,575.00	11/2/2012	\$24,575.00
120	DRILLED 30" CONDUCTOR HOLE	\$0.00	\$0.00	\$0.00	11/2/2012 11/2/2012	
120	20" CONDUCTOR PIPE (.250 WALL)	\$0.00	\$0.00	\$0.00	11/2/2012 11/2/2012	
1	6'X6' CELLAR TINHORN WITH PROTECTIVE RING	\$0.00	\$0.00	\$0.00	11/2/2012 11/2/2012	
1	DRILL & INSTALL 6'X6' CELLAR TINHORN	\$0.00	\$0.00	\$0.00	11/2/2012 11/2/2012	
75	DRILLED 20" MOUSE HOLE (PER FOOT)	\$0.00	\$0.00	\$0.00	11/2/2012 11/2/2012	
75	16" CONDUCTOR PIPE (.250 WALL)	\$0.00	\$0.00	\$0.00	11/2/2012 11/2/2012	
1	MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE	\$0.00	\$0.00	\$0.00	11/2/2012 11/2/2012	
1	WELDING SERVICES FOR PIPE & LIDS	\$0.00	\$0.00	\$0.00	11/2/2012 11/2/2012	
1	PROVIDED EQUIPMENT & LABOR FOR DIRT REMOVAL	\$0.00	\$0.00	\$0.00	11/2/2012 11/2/2012	
1	PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR THE MOUSEHOLE PIPE)	\$0.00	\$0.00	\$0.00	11/2/2012 11/2/2012	
15	CEMENT 14 SACK GROUT	\$0.00	\$0.00	\$0.00	11/2/2012 11/2/2012	
1	8' HAY FEEDER	\$0.00	\$0.00	\$0.00	11/2/2012 11/2/2012	
1	PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE	\$0.00	\$0.00	\$0.00	11/2/2012 11/2/2012	
Sub Total:		\$24,575.00	\$0.00			\$24,575.00

Print Name

Signature

JOB SUMMARY

COUNTY COMANCHE	State KANSAS	COMPANY SANDRIDGE E&P	PROJECT NUMBER SOK 2084	TICKET DATE 11/07/12
LEASE NAME HAROLD	Well No. 1120 2-26	JOB TYPE Surface	CUSTOMER REP TOMMY WHITLOW	
EMPLOYEE NAME				

EMP NAME	Kevin Johnson				
John Hall					
Wallace Berry					
vauntrey watkens					

Form. Name _____ Type: _____

Packer Type _____ Set At _____ 0

Bottom Hole Temp. _____ 80 Pressure _____

Retainer Depth _____ Total Depth _____ 950

Date	Called Out	On Location	Job Started	Job Completed
	11/7/2012	11/7/2012	11/7/2012	11/7/2012
Time	1:00pm	4:43 PM	11:00pm	12:40am

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data							
	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		36#	9 5/8"		Surface		1,500
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			12 1/4"		Surface	950	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
	WBM	Density	Lb/Gal
Mud Type		9	
Disp. Fluid	Fresh Water	Density	8.33
Spacer type	resh Wate	BBL.	10
Spacer type		BBL.	8.33
Acid Type		Gal.	%
Acid Type		Gal.	%
Surfactant		Gal.	In
NE Agent		Gal.	In
Fluid Loss		Gal/Lb	In
Gelling Agent		Gal/Lb	In
Fric. Red.		Gal/Lb	In
MISC.		Gal/Lb	In
Perfpac Balls		Qty.	
Other			
Other			
Other			
Other			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
11/7	4.0	11/7	2.0	Surface
Total	4.0	Total	2.0	

Pressures			
MAX	1,500 PSI	AVG	200
Average Rates in BPM			
MAX	6 BPM	AVG	5
Cement Left in Pipe			
Feet	46	Reason	SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	300	EX Lite Premium Plus 66	(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - .5% C-41P	10.88	1.84	12.70
2	150	Premium Plus (Class C)	1% Calcium Chloride - 1/4pps Cello-Flake	6.32	1.32	14.80
3	*100	Premium Plus (Class C)	*2% Calcium Chloride on side to use if necessary	*6.32	*1.32	*14.8

Summary							
Preflush Breakdown	Type:	MAXIMUM	1,500 PSI	Preflush:	BBI	10.00	Type: Fresh Water
		Lost Returns-N	NO/FULL	Load & Bkdn:	Gal - BBI	N/A	Pad:Bbl -Gal N/A
		Actual TOC	SURFACE	Excess /Return	BBI	30	Calc. Disp Bbl 71
Average		Bump Plug PSI:	400	Calc. TOC:		SURFACE	Actual Disp. 71.00
ISIP	5 Min.	10 Min.	15 Min.	Final Circ.	PSI:	400	Disp:Bbl 71.00
				Cement Slurry:	BBI	133.0	
				Total Volume	BBI	214.00	

CUSTOMER REPRESENTATIVE Clark Heller SIGNATURE

JOB SUMMARY

PROJECT NUMBER sok 2117			TICKET DATE 11/15/12		
COUNTY Comanche		State Kansas		COMPANY Sandridge Exploration & Production	
LEASE NAME Harold 3120			Well No. 2-26H		JOB TYPE Intermediate
CUSTOMER REP Claude Hallmark				EMPLOYEE NAME billy taff	

EMP NAME					
Billy Taff					
John Hall					
Wallace Berry					
Kevin Johnson					

Form. Name _____ Type: _____

Packer Type _____ Set At 4,169

Bottom Hole Temp. 155 Pressure _____

Retainer Depth _____ Total Depth 5546

Date	Called Out	On Location	Job Started	Job Completed
	11/16/2012	11/16/2012	11/16/2012	11/16/2012
Time	10:30am	2:00pm	7:30pm	9:34pm

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		26#	7"		Surface		5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8 3/4"		Surface	5,546	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

Mud Type	WBM	Density	9	Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33	Lb/Gal
Spacer type	Fresh Water BBL.		20	8.33
Spacer type	Caustic BBL.		10	8.40
Acid Type	Gal.		%	
Acid Type	Gal.		%	
Surfactant	Gal.		ln	
NE Agent	Gal.		ln	
Fluid Loss	Gal/Lb		ln	
Gelling Agent	Gal/Lb		ln	
Fric. Red.	Gal/Lb		ln	
MISC.	Gal/Lb		ln	

Hours On Location

Date		Hours	Date		Hours	Description of Job
11/16		8.0	11/16		2.0	
Total		8.0	Total		2.0	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Other _____

Pressures

MAX	5,000 PSI	AVG.	250
Average Rates in BPM			
MAX	8 BPM	AVG	5
Cement Left in Pipe			
Feet	91	Reason	SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	175	50/50 POZ PREMIUM	4% Gel - 0.4% C-12 - 0.1% C-37 - 0.5% C-41P - 2 lb/sk Phenoseal	6.77	1.44	13.60
2	100	Premium	0.4% C-12 - 0.1% C-37	5.20	1.18	15.60
3	0	0		0	0.00	0.00

Summary

Preflush Breakdown	<u>10</u>	Type: _____	Caustic	5,000 PSI	Preflush: BBI	<u>20.00</u>	Type: _____	WEIGHTED SP.
		MAXIMUM	NOTFULL		Load & Bkdn: Gal - BBI	N/A	Pad:Bbl -Gal	N/A
		Lost Returns-N			Excess /Return BBI	N/A	Calc. Disp Bbl	209
		Actual TOC			Calc. TOC:	4169'	Actual Disp.	208.50
Average ISIP	5 Min.	Bump Plug PSI:	1,300		Final Circ. PSI:	800	Disp:Bbl	208.50
	10 Min.		15 Min.		Cement Slurry: BBI	65.8		
					Total Volume	BBI	294.30	

CUSTOMER REPRESENTATIVE Claude Hallmark SIGNATURE _____

JOB SUMMARY			PROJECT NUMBER SOK 2143	TICKET DATE 11/22/12
COUNTY Comanche	State Kansas	COMPANY Bridge Exploration & Produc	CUSTOMER REP Tommy	
LEASE NAME Harold 3120	Well No. 2-26H	JOB TYPE Liner	EMPLOYEE NAME Derek Lewis	

EMP NAME							
Derek Lewis		0.00					
Jessie McClain							
Rory Morris							
Emmit Brock							

Form. Name _____ Type: _____

Packer Type _____ Set At **0**

Bottom Hole Temp. **150** Pressure _____

Retainer Depth _____ Total Depth **0**

Date	Called Out	On Location	Job Started	Job Completed
	11/22/2012	11/22/2012	11/23/2012	11/23/2012
Time	1100	1800	0226	0500

Type and Size	Qty	Make
Auto Fill Tube	0	Weatherford
Insert Float Val	0	
Centralizers	0	
Top Plug	0	
HEAD	0	
Limit clamp	0	
Weld-A	0	
Texas Pattern Guide Shoe	0	
Cement Basket	0	

Well Data							
	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	New	11.6	4 1/2			8787'	5,000
Liner Tool							
HWDP							
Drill Pipe			3 1/2"				
Drill Collars							
Open Hole			6 1/8"		Surface	8787'	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials				
Mud Type	WBM	Density	9.1	Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33	Lb/Gal
Spacer type	Fresh Water BBL.		20	8.33
Spacer type	Caustic BBL.		10	8.40
Acid Type		Gal.		%
Acid Type		Gal.		%
Surfactant		Gal.		ln
NE Agent		Gal.		ln
Fluid Loss		Gal/Lb		ln
Gelling Agent		Gal/Lb		ln
Fric. Red.		Gal/Lb		ln
MISC.		Gal/Lb		ln
Perfpac Balls		Qty.		
Other				
Other				
Other				
Other				

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
11/22	11.0	11/23	3.0	Liner
				Had to Cement @ 8787'
				Due to Casing getting Stuck
Total	11.0	Total	3.0	

Pressures		
MAX	5,000 PSI	AVG.
Average Rates in BPM		
MAX	7 BPM	AVG.
Cement Left in Pipe		
Feet	90'	Reason SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	460	50/50 Premium Poz	(4%Gel) - .4% C12 - .1% C37 - 0.5% C-41P - 2 Lb/Sk Phenoseal	6.77	1.44	13.60
2	0	0		0	0.00	0.00
3	0	0		0	0.00	0.00

Summary							
Preflush	C-63	Type:	Caustic	Preflush:	BBI	30.00	Type: 8.59#/SPACER
Breakdown		MAXIMUM	3,500 PSI	Load & Bkdn:	Gal - BBI	N/A	Pad:Bbl -Gal N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBI	N/A	Calc. Disp Bbl 109
		Actual TOC	4.697'	Calc. TOC:		4.668'	Actual Disp. 108.50
Average		Bump Plug PSI:	2,300	Final Circ. PSI:		1,280	Disp:Bbl 108.50
ISIP	5 Min.	10 Min	15 Min	Cement Slurry:	BBI	116.0	
				Total Volume	BBI	254.50	

CUSTOMER REPRESENTATIVE _____ SIGNATURE _____



Standard Wellpath Report
Sandridge
Sec 26 - 31S - 20W, Kansas
Comanche County
Wellbore: Harold 3120 2-26H (Actual)

Wellbore

Name	Created	Last Revised
Harold 3120 2-26H (Actual)	30-Oct-2012	26-Nov-2012

Well

Name	Government ID	Last Revised
Harold 3120 2-26H		30-Oct-2012

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Harold 3120 2-26H	235505.0000	1722349.0000	N37 18 34.3749	W99 27 16.6995	252.00N	156.00W

Installation

Name	Easting	Northing	Coord System Name	North Alignment
Comanche County	1722505.0000	235253.0000	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Field

Name	Easting	Northing	Coord System Name	North Alignment
Sec 26 - 31S - 20W	1722505.0000	235253.0000	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Created By

Comments

FINAL Surveys.
MD 9464 is a projection to bit @ TD



Standard Wellpath Report
 Sandridge
 Sec 26 - 31S - 20W, Kansas
 Comanche County
 Wellbore: Harold 3120 2-26H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
0.00	0.00	0.000	0.00	0.00N	0.00E		0.00	1722349.00	235505.00
1150.00	1.30	127.200	1149.90	7.89S	10.39E	0.11	-8.38	1722359.39	235497.11
1426.00	0.80	124.000	1425.85	10.86S	14.48E	0.18	-11.54	1722363.48	235494.14
1901.00	0.80	173.000	1900.81	16.00S	17.64E	0.14	-16.83	1722366.64	235489.00
2375.00	0.90	174.600	2374.76	22.99S	18.39E	0.02	-23.85	1722367.39	235482.01
2850.00	0.40	168.700	2849.73	28.33S	19.07E	0.11	-29.22	1722368.07	235476.67
3325.00	0.50	138.200	3324.71	31.50S	20.77E	0.05	-32.47	1722369.77	235473.50
3800.00	0.50	132.800	3799.70	34.46S	23.67E	==>	-35.56	1722372.67	235470.54
4148.00	0.50	91.900	4147.68	35.54S	26.31E	0.10	-36.77	1722375.31	235469.46
4179.00	1.00	16.200	4178.68	35.28S	26.52E	3.23	-36.52	1722375.52	235469.72
4211.00	3.60	346.300	4210.65	34.04S	26.36E	8.68	-35.27	1722375.36	235470.96
4242.00	6.90	342.000	4241.52	31.32S	25.55E	10.71	-32.52	1722374.55	235473.68
4274.00	9.50	339.700	4273.19	27.02S	24.04E	8.19	-28.14	1722373.04	235477.98
4306.00	11.30	338.800	4304.66	21.62S	21.99E	5.65	-22.65	1722370.99	235483.38
4337.00	12.20	338.200	4335.01	15.74S	19.67E	2.93	-16.67	1722368.67	235489.26
4369.00	14.30	337.800	4366.16	8.95S	16.93E	6.57	-9.75	1722365.93	235496.06
4400.00	16.90	338.200	4396.02	1.22S	13.81E	8.39	-1.88	1722362.80	235503.78
4432.00	19.00	339.500	4426.46	7.98N	10.25E	6.68	7.48	1722359.25	235512.98
4464.00	21.40	340.200	4456.49	18.36N	6.45E	7.54	18.03	1722355.45	235523.36
4495.00	23.70	340.000	4485.11	29.53N	2.40E	7.42	29.38	1722351.40	235534.53
4527.00	26.20	339.200	4514.13	42.18N	2.31W	7.88	42.25	1722346.69	235547.18
4559.00	27.60	339.900	4542.66	55.75N	7.36W	4.49	56.04	1722341.64	235560.75
4591.00	29.10	340.000	4570.82	70.02N	12.57W	4.69	70.55	1722336.43	235575.02
4622.00	31.30	340.600	4597.61	84.70N	17.82W	7.16	85.46	1722331.18	235589.70
4654.00	33.40	341.400	4624.65	100.89N	23.40W	6.70	101.90	1722325.60	235605.89
4686.00	35.60	341.700	4651.02	118.09N	29.13W	6.90	119.35	1722319.87	235623.09
4717.00	37.90	341.700	4675.85	135.70N	34.95W	7.42	137.22	1722314.05	235640.69
4749.00	39.30	342.400	4700.86	154.69N	41.10W	4.58	156.49	1722307.90	235659.69
4781.00	41.60	342.700	4725.21	174.49N	47.33W	7.21	176.57	1722301.67	235679.49
4812.00	43.20	341.300	4748.10	194.37N	53.79W	5.99	196.73	1722295.21	235699.37
4844.00	45.40	340.900	4771.00	215.51N	61.03W	6.93	218.20	1722287.97	235720.51
4876.00	46.70	342.100	4793.21	237.36N	68.34W	4.88	240.37	1722280.66	235742.36
4907.00	48.90	342.700	4814.04	259.25N	75.28W	7.24	262.57	1722273.72	235764.25
4939.00	49.00	342.600	4835.05	282.28N	82.48W	0.39	285.93	1722266.52	235787.28
4971.00	48.70	342.100	4856.11	305.24N	89.78W	1.50	309.21	1722259.22	235810.24
5002.00	48.60	342.000	4876.59	327.38N	96.95W	0.40	331.67	1722252.05	235832.38
5034.00	49.50	342.200	4897.56	350.38N	104.38W	2.85	355.00	1722244.62	235855.38
5066.00	49.60	342.200	4918.32	373.57N	111.83W	0.31	378.52	1722237.18	235878.56
5097.00	49.70	341.900	4938.39	396.04N	119.11W	0.80	401.32	1722229.89	235901.04
5129.00	51.90	341.500	4958.62	419.58N	126.89W	6.94	425.21	1722222.11	235924.58
5161.00	54.70	340.900	4977.74	443.87N	135.16W	8.88	449.86	1722213.84	235948.86
5193.00	57.30	341.200	4995.63	468.96N	143.78W	8.16	475.34	1722205.22	235973.95
5224.00	60.00	342.800	5011.76	494.14N	151.95W	9.76	500.88	1722197.05	235999.13
5256.00	62.80	343.500	5027.08	521.02N	160.09W	8.96	528.12	1722188.91	236026.02
5288.00	64.40	344.800	5041.30	548.59N	167.92W	6.18	556.04	1722181.08	236053.59
5319.00	66.40	345.800	5054.21	575.86N	175.07W	7.09	583.62	1722173.93	236080.85
5351.00	68.80	346.600	5066.40	604.59N	182.12W	7.85	612.65	1722166.88	236109.58
5383.00	72.40	347.500	5077.03	634.00N	188.88W	11.56	642.35	1722160.12	236138.99
5415.00	76.30	348.900	5085.66	664.15N	195.18W	12.89	672.78	1722153.82	236169.15
5446.00	79.70	349.800	5092.11	693.95N	200.78W	11.33	702.81	1722148.22	236198.94
5478.00	82.00	351.700	5097.19	725.13N	205.86W	9.27	734.20	1722143.14	236230.12
5492.00	83.50	352.700	5098.96	738.89N	207.74W	12.85	748.03	1722141.26	236243.88
5555.00	86.70	356.100	5104.34	801.34N	213.86W	7.40	810.71	1722135.14	236306.33
5647.00	89.60	357.300	5107.31	893.13N	219.15W	3.41	902.64	1722129.85	236398.12
5739.00	91.00	357.500	5106.83	985.03N	223.33W	1.54	994.64	1722125.68	236490.02
5831.00	90.60	359.800	5105.55	1076.99N	225.49W	2.54	1086.60	1722123.51	236581.98
5972.00	90.40	0.400	5104.32	1217.98N	225.25W	0.45	1227.41	1722123.75	236722.97
6015.00	91.00	0.200	5103.79	1260.98N	225.02W	1.47	1270.35	1722123.98	236765.97
6107.00	91.60	0.100	5101.70	1352.95N	224.78W	0.66	1362.21	1722124.22	236857.94
6199.00	90.10	359.000	5100.34	1444.94N	225.50W	2.02	1454.12	1722123.50	236949.92
6291.00	89.90	358.800	5100.34	1536.92N	227.27W	0.31	1546.08	1722121.73	237041.90
6383.00	90.70	359.300	5099.86	1628.91N	228.80W	1.03	1638.03	1722120.21	237133.89
6475.00	90.70	359.800	5098.73	1720.90N	229.52W	0.54	1729.95	1722119.48	237225.88
6567.00	90.40	359.900	5097.85	1812.89N	229.76W	0.34	1821.85	1722119.24	237317.87
6659.00	90.80	359.600	5096.89	1904.88N	230.16W	0.54	1913.76	1722118.84	237409.87
6751.00	89.80	0.300	5096.40	1996.88N	230.24W	1.33	2005.65	1722118.76	237501.86
6843.00	88.30	358.500	5097.93	2088.86N	231.20W	2.55	2097.57	1722117.80	237593.84
6935.00	92.90	2.600	5096.97	2180.80N	230.32W	6.70	2189.36	1722118.68	237685.78
7030.00	91.50	0.400	5093.32	2275.69N	227.84W	2.74	2284.02	1722121.16	237780.67
7125.00	90.20	359.900	5091.91	2370.68N	227.59W	1.47	2378.89	1722121.41	237875.66

All data is in Feet unless otherwise stated
 Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Harold 3120 2-26H 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 357.240 degrees
 Bottom hole distance is 4715.62 Feet on azimuth 356.95 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by
 Date Printed: 26-Nov-2012



Standard Wellpath Report
 Sandridge
 Sec 26 - 31S - 20W, Kansas
 Comanche County
 Wellbore: Harold 3120 2-26H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
7220.00	90.20	359.300	5091.58	2465.68N	228.25W	0.63	2473.81	1722120.75	237970.65
7315.00	90.50	359.600	5091.00	2560.67N	229.16W	0.45	2568.73	1722119.84	238065.64
7410.00	89.90	358.300	5090.67	2655.65N	230.91W	1.51	2663.69	1722118.10	238160.62
7505.00	89.50	359.200	5091.16	2750.63N	232.98W	1.04	2758.65	1722116.02	238255.60
7600.00	90.70	0.100	5091.00	2845.62N	233.56W	1.58	2853.57	1722115.44	238350.59
7695.00	91.20	1.200	5089.42	2940.60N	232.48W	1.27	2948.38	1722116.52	238445.57
7790.00	91.50	0.900	5087.18	3035.56N	230.74W	0.45	3043.15	1722118.26	238540.53
7885.00	91.00	1.300	5085.11	3130.52N	228.92W	0.67	3137.91	1722120.09	238635.49
7980.00	91.30	0.900	5083.21	3225.48N	227.09W	0.53	3232.67	1722121.91	238730.45
8075.00	90.40	0.200	5081.80	3320.46N	226.18W	1.20	3327.50	1722122.82	238825.43
8170.00	89.70	359.700	5081.71	3415.46N	226.26W	0.91	3422.40	1722122.74	238920.43
8265.00	89.00	359.500	5082.79	3510.45N	226.93W	0.77	3517.31	1722122.07	239015.42
8360.00	90.00	359.700	5083.62	3605.45N	227.59W	1.07	3612.22	1722121.41	239110.41
8455.00	89.80	359.300	5083.79	3700.44N	228.42W	0.47	3707.15	1722120.58	239205.41
8550.00	90.70	359.600	5083.37	3795.44N	229.33W	1.00	3802.08	1722119.67	239300.40
8645.00	90.80	359.300	5082.13	3890.42N	230.24W	0.33	3897.00	1722118.76	239395.38
8740.00	91.10	359.900	5080.55	3985.41N	230.91W	0.71	3991.90	1722118.10	239490.37
8834.00	91.00	359.200	5078.83	4079.39N	231.65W	0.75	4085.81	1722117.36	239584.35
8929.00	90.40	359.000	5077.67	4174.37N	233.14W	0.67	4180.75	1722115.87	239679.33
9024.00	90.40	357.900	5077.01	4269.33N	235.71W	1.16	4275.73	1722113.30	239774.29
9119.00	90.30	357.900	5076.43	4364.27N	239.19W	0.11	4370.72	1722109.81	239869.22
9214.00	90.70	358.000	5075.60	4459.20N	242.59W	0.43	4465.71	1722106.42	239964.16
9309.00	91.40	358.000	5073.86	4554.13N	245.90W	0.74	4560.68	1722103.10	240059.08
9404.00	92.50	358.100	5070.62	4649.01N	249.13W	1.16	4655.62	1722099.87	240153.97
9464.00	92.50	358.100	5068.01	4708.92N	251.12W	==>	4715.55	1722097.88	240213.88

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 Prepared by
 Date Printed: 26-Nov-2012



Standard Wellpath Report
Sandridge
Sec 26 - 31S - 20W, Kansas
Comanche County
Wellbore: Harold 3120 2-26H (Actual)

Comments

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment
9464.00	5068.01	4708.92N	251.12W	MD 9464 is a Projection to bit @ TD

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Section 23
31S 20W

Section 24
31S 20W

338' FNL 515' FEL

BHL: 9464'
-99.456061 37.322496

Bottom Perf: 8787'
-99.455966 37.32051

GARLAND 3120 1-26H

Section 26
31S 20W

Section 25
31S 20W

Top Perf: 5382'
-99.455703 37.311307

Miss Entry: 5312'
-99.455654 37.311148

HAROLD 1-26H

HAROLD 3120 2-26H

DIXIE SWD 1-25

KERSTETTER 1-25H

MARIAH 3120 2-36H

KERSTETTER 3120 3-25H

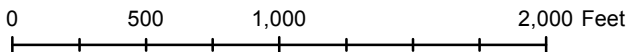
Section 35
31S 20W

Section 36
31S 20W



Actual Bottom-Hole Location of Harold 3120 2-26H
Comanche County, Kansas
T&R: 31S 20W
Section: 26, 515' FEL & 338' FNL
Long/Lat: -99.456061 37.322496

1 in = 719 ft



● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections

Draftsman:

Aaron Birk

Draft Date: 2/13/2013

Drawing Name/Number:

Addendum_Harold_2-26H .mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502

Remarks

Tiffany
Golay
02/12/013
03:40 pm Additional Fluid Mgmt Info: 4160bbls hauled to Weinett Disposal LLC, NW/4
Section 1079 Block 43, Lipscomb, TX, 10-0992; 980 bbls hauled to Guard,
Inc. 23-22N-13W, Major, OK 342682

Tiffany
Golay
02/04/013
10:20 am Surface Pipe was set to 957 exceeding the max surface casing by 7 ft

Tiffany
Golay
02/04/013
10:19 am conductor weight= 94 lbs/ft

Tiffany
Golay
01/29/013
11:17 am TVD= 5068