



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1163074
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: _____

1163074

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Oliver 3306 1-14H
Doc ID	1163074

All Electric Logs Run

Boresight
Mud Log
Prizm
Nuclear
Induction

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Oliver 3306 1-14H
Doc ID	1163074

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	7731-7731	1500 gals 15% HCL, 2942 bbls slickwater, TLTR 2942 bbls	
5	7402-7642	1500 gals 15% HCL, 7039 bbls slickwater, TLTR 10116 bbls	
5	6990-7312	1500 gals 15% HCL, 7039 bbls slickwater, TLTR 17285 bbls	
5	6669-6934	1500 gals 15% HCL, 6092 bbls slickwater, TLTR 23438 bbls	
5	6277-6549	1500 gals 15% HCL, 6372 bbls slickwater, TLTR 29900 bbls	
5	5930-6181	1500 gals 15% HCL, 6575 bbls slickwater, TLTR 36549 bbls	
5	5564-5566	1500 gals 15% HCL, 6262 bbls slickwater, TLTR 42841 bbls	
5	5178-5476	1500 gals 15% HCL, 6461 bbls slickwater, TLTR 49410 bbls	



INVOICE

DATE	INVOICE #
9/16/2013	4215

BILL TO
SANDRIDGE ENERGY, INC. ATTN: PURCHASING MANAGER 123 ROBERT S. KERR AVENUE OKLAHOMA CITY, OK 73102

REMIT TO
EDGE SERVICES, INC. PO BOX 609 WOODWARD, OK 73802

COUNTY	STARTING D...	WORK ORDER	RIG NUMBER	LEASE NAME	Terms
HARPER, KS	9/16/2013	3278	UNIT 9	OLIVER 3306 1-14H	Due on rec...

Description

DRILLED 80' OF 30" CONDUCTOR HOLE
 DRILLED 6' OF 76" HOLE
 FURNISHED AND SET 6' X 6' TINHORN CELLAR
 FURNISHED 80' OF 20" CONDUCTOR PIPE
 FURNISHED 1 LOAD(S) MUD
 FURNISHED WELDER AND MATERIALS
 FURNISHED 11 YARDS OF GRADE A CEMENT
 FURNISHED GROUT PUMP
 DRILL MOUSE HOLE
 FURNISHED 80' OF 14" CONDUCTOR PIPE FOR MOUSE HOLE

TOTAL BID \$ 17,000.00

Sales Tax (6.15%)	\$161.62
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TOTAL	\$17,161.62
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JOB SUMMARY			PROJECT NUMBER SOK 3092	TICKET DATE 10/08/13
COUNTY Harper	State Kansas	COMPANY Sandridge Exploration & Production	CUSTOMER REP Quincey Loven	
LEASE NAME Oliver 3306	Well No. 1-14H	JOB TYPE Intermediate	EMPLOYEE NAME LOUIS ARNEY	

EMP NAME					
L. ARNEY		0			
M. QUINTANA					
D. TEWELL					
F. HELKENA					

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 155 Pressure _____

Retainer Depth _____ Total Depth 5185

Date	Called Out	On Location	Job Started	Job Completed
	10/8/2013	10/8/2013	10/8/2013	10/8/2013
Time	0900	1530	1746	2000

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
Casing		26#	7"		Surface	
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			8 1/2"		Surface	5,185
Perforations						Shots/Ft.
Perforations						
Perforations						

Materials			
	WBM	Density	Lb/Gal
Disp. Fluid	Fresh Water	8.33	
Spacer type	Fresh Water BBL.	20	8.33
Spacer type	Caustic BBL.	10	8.40
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

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
10/8	4.5	10/8	1.3	Intermediate
Total	4.5	Total	1.3	

Pressures			
MAX	5,000 PSI	AVG.	400
Average Rates in BPM			
MAX	8 BPM	AVG	5
Cement Left in Pipe			
Feet	90	Reason	SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	220	50/50 POZ PREMIUM	4% Gel - 0.2% FL-17 - 0.1% C-51 - 0.4% C-41P	6.93	1.43	13.60
2	100	Premium	0.2% FL-17 - 0.1% C-51 - 0.1% C-20 - 0.4% C-41P	5.19	1.19	15.60
3	0	0		0	0.00	0.00

Summary						
Preflush Breakdown	10	Type: Caustic	Preflush: BBI	30.00	Type: Gel Spacer	
		MAXIMUM 5,000 PSI	Load & Bkdn: Gal - BBI	N/A	Pad:Bbl -Gal	N/A
		Lost Returns-N	Excess /Return BBI	N/A	Calc. Disp Bbl	194
		Actual TOC	Calc. TOC:		Actual Disp.	192.00
Average		Bump Plug PSI: 1.700	Final Circ. PSI:	500	Disp:Bbl	
isir	5 Min.	10 Min	Cement Slurry: BBI	77.0		
		15 Min	Total Volume BBI	299.00		

CUSTOMER REPRESENTATIVE _____ SIGNATURE _____

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

October 15, 2013

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

Re: ACO1
API 15-077-21963-01-00
Oliver 3306 1-14H
SW/4 Sec.14-33S-06W
Harper County, Kansas

Dear Production Department:

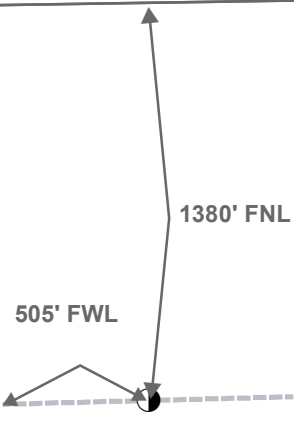
We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Tiffany Golay

Section 10
33S 6W

Section 11
33S 6W



BHL: 7930'
-97.946252 37.178007

Bottom Perf: 7402'
-97.946196 37.176575

Section 15
33S 6W

Section 14
33S 6W

Harper County

Top Perf: 4714'
-97.94598 37.169352

Miss Entry: 4684'
-97.945956 37.169186

OLIVER 3306 1-14H
IRON HORSE SWD 3306 1-14

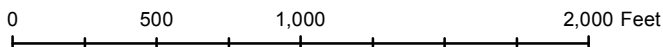
Section 22
33S 6W

Section 23
33S 6W



Actual Bottom-Hole Location of Oliver 3306 1-14H
Harper County, Kansas
T&R: 35S 6W
Section: 14, 505' FWL & 1380' FNL
-97.946252 37.178007

1 in = 667 ft



● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections

Draftsman:

Aaron Birk

Draft Date: 12/27/2013

Drawing Name/Number:

Addendum_Oliver 3306 1-14H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502

Standard Wellpath Report
 Sandridge
 Sec 14 - 33S - 6W, Kansas
 Harper County
 Wellbore: Oliver 3306 1-14H (Actual)

Wellbore

Name	Created	Last Revised
Oliver 3306 1-14H (Actual)	17-Sep-2013	14-Oct-2013

Well

Name	Government ID	Last Revised
Oliver 3306 1-14H		17-Sep-2013

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Oliver 3306 1-14H	182967.0000	2161914.0000	N37 10 4.2057	W97 56 39.6955	251.00N	988.98E

Installation

Name	Easting	Northing	Coord System Name	North Alignment
Harper County	2160925.0000	182716.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Field

Name	Easting	Northing	Coord System Name	North Alignment
Sec 14 - 33S - 6W	2160925.0000	182716.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

Created By

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Comments

<p>FINAL SURVEYS: MD 7935 is a projection to bit @ TD</p>
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Standard Wellpath Report
Sandridge
Sec 14 - 33S - 6W, Kansas
Harper County
Wellbore: Oliver 3306 1-14H (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	2161914.00	182967.00
688.00	0.60	123.500	687.99	1.99S	3.00E	0.09	-2.21	2161917.00	182965.01
964.00	0.10	138.600	963.98	2.97S	4.37E	0.18	-3.29	2161918.37	182964.03
1425.00	0.10	148.300	1424.98	3.61S	4.85E	==>	-3.97	2161918.85	182963.39
1900.00	0.60	62.500	1899.97	2.81S	7.27E	0.13	-3.36	2161921.27	182964.19
2375.00	1.20	2.900	2374.92	3.30N	9.73E	0.22	2.55	2161923.73	182970.30
2850.00	0.70	327.000	2849.86	10.70N	8.40E	0.16	10.03	2161922.40	182977.70
3135.00	0.70	352.200	3134.84	13.89N	7.21E	0.11	13.30	2161921.21	182980.89
3167.00	0.40	305.900	3166.83	14.15N	7.10E	1.60	13.57	2161921.10	182981.15
3198.00	1.80	276.900	3197.83	14.27N	6.53E	4.72	13.73	2161920.53	182981.27
3230.00	3.90	270.800	3229.79	14.34N	4.94E	6.62	13.93	2161918.94	182981.34
3261.00	6.10	263.900	3260.67	14.18N	2.25E	7.34	13.97	2161916.25	182981.18
3293.00	8.00	265.300	3292.42	13.82N	1.66W	5.96	13.91	2161912.34	182980.82
3324.00	10.20	262.300	3323.03	13.28N	6.53W	7.26	13.73	2161907.47	182980.28
3356.00	12.30	264.600	3354.42	12.58N	12.74W	6.71	13.51	2161901.26	182979.58
3388.00	14.60	265.600	3385.54	11.94N	20.15W	7.22	13.44	2161893.85	182978.95
3419.00	17.00	265.400	3415.36	11.28N	28.57W	7.74	13.42	2161885.43	182978.28
3451.00	17.80	264.400	3445.90	10.43N	38.10W	2.67	13.29	2161875.90	182977.43
3483.00	17.80	264.600	3476.37	9.49N	47.83W	0.19	13.10	2161866.17	182976.49
3515.00	17.30	267.100	3506.88	8.79N	57.46W	2.83	13.13	2161856.54	182975.79
3547.00	16.60	268.100	3537.49	8.40N	66.78W	2.37	13.45	2161847.22	182975.40
3610.00	17.10	267.000	3597.78	7.62N	85.02W	0.94	14.05	2161828.98	182974.62
3641.00	16.60	267.000	3627.45	7.14N	93.99W	1.61	14.26	2161820.00	182974.14
3705.00	15.40	265.000	3688.97	5.93N	111.59W	2.06	14.38	2161802.41	182972.93
3737.00	14.80	265.400	3719.87	5.23N	119.90W	1.90	14.32	2161794.10	182972.23
3768.00	15.20	269.300	3749.81	4.86N	127.91W	3.50	14.56	2161786.09	182971.86
3800.00	15.70	276.100	3780.66	5.27N	136.41W	5.87	15.61	2161777.59	182972.27
3832.00	17.30	284.800	3811.34	6.95N	145.31W	9.19	17.96	2161768.68	182973.95
3864.00	19.00	293.000	3841.75	10.20N	154.71W	9.58	21.92	2161759.29	182977.20
3896.00	21.70	296.300	3871.76	14.85N	164.81W	9.16	27.33	2161749.18	182981.85
3928.00	23.10	300.500	3901.34	20.66N	175.53W	6.64	33.93	2161738.47	182987.66
3959.00	24.20	304.300	3929.74	27.33N	186.02W	6.06	41.38	2161727.98	182994.33
3992.00	25.20	309.800	3959.72	35.64N	197.00W	7.59	50.50	2161716.99	183002.64
4023.00	26.80	313.700	3987.59	44.69N	207.13W	7.55	60.29	2161706.87	183011.69
4055.00	28.40	316.200	4015.95	55.17N	217.61W	6.17	71.54	2161696.39	183022.17
4086.00	30.50	319.500	4042.94	66.48N	227.82W	8.56	83.59	2161686.17	183033.48
4117.00	32.10	322.600	4069.43	79.00N	237.94W	7.32	96.84	2161676.06	183046.00
4149.00	34.20	326.400	4096.22	93.25N	248.08W	9.23	111.82	2161665.92	183060.25
4180.00	36.20	329.300	4121.56	108.38N	257.58W	8.41	127.63	2161656.42	183075.38
4212.00	38.30	333.100	4147.03	125.36N	266.89W	9.73	145.26	2161647.10	183092.36
4244.00	40.20	336.500	4171.81	143.67N	275.50W	8.97	164.18	2161638.50	183110.68
4275.00	42.40	338.400	4195.10	162.57N	283.33W	8.17	183.62	2161630.66	183129.57
4307.00	44.60	340.000	4218.31	183.16N	291.15W	7.69	204.74	2161622.84	183150.16
4339.00	46.80	341.500	4240.66	204.78N	298.69W	7.65	226.87	2161615.30	183171.79
4370.00	48.90	342.900	4261.46	226.66N	305.71W	7.56	249.23	2161608.28	183193.67
4401.00	51.10	345.200	4281.39	249.49N	312.23W	9.09	272.49	2161601.76	183216.50
4433.00	53.10	347.400	4301.05	274.02N	318.20W	8.28	297.40	2161595.79	183241.03
4464.00	55.50	349.100	4319.14	298.67N	323.33W	8.93	322.36	2161590.67	183265.67
4496.00	58.30	350.100	4336.61	325.03N	328.16W	9.13	349.02	2161585.83	183292.04
4528.00	60.80	350.900	4352.83	352.24N	332.71W	8.10	376.49	2161581.28	183319.25
4559.00	63.00	351.300	4367.43	379.25N	336.94W	7.19	403.75	2161577.05	183346.26
4591.00	64.90	351.700	4381.48	407.69N	341.19W	6.04	432.42	2161572.81	183374.69
4622.00	67.70	351.900	4393.94	435.78N	345.24W	9.05	460.74	2161568.76	183402.79
4655.00	71.30	352.000	4405.49	466.38N	349.56W	10.91	491.58	2161564.43	183433.39
4687.00	75.40	353.200	4414.66	496.78N	353.51W	13.31	522.19	2161560.49	183463.79
4718.00	77.70	354.900	4421.87	526.76N	356.63W	9.14	552.32	2161557.36	183493.77
4750.00	78.80	356.000	4428.39	557.99N	359.12W	4.81	583.65	2161554.88	183525.00
4781.00	80.30	356.900	4434.01	588.42N	361.00W	5.62	614.13	2161552.99	183555.43
4813.00	82.90	357.800	4438.68	620.04N	362.47W	8.59	645.77	2161551.53	183587.05
4845.00	85.30	359.000	4441.97	651.85N	363.35W	8.38	677.56	2161550.64	183618.86
4876.00	86.70	359.100	4444.14	682.77N	363.87W	4.53	708.43	2161550.13	183649.78
4908.00	87.20	359.700	4445.84	714.72N	364.20W	2.44	740.32	2161549.79	183681.74
4939.00	87.20	359.800	4447.35	745.69N	364.34W	0.32	771.20	2161549.66	183712.70
4972.00	87.20	359.200	4448.97	778.65N	364.62W	1.82	804.09	2161549.37	183745.66
5003.00	87.20	359.100	4450.48	809.60N	365.08W	0.32	834.99	2161548.91	183776.62
5035.00	87.20	358.700	4452.04	841.56N	365.70W	1.25	866.90	2161548.30	183808.58
5098.00	89.80	359.000	4453.69	904.52N	366.96W	4.15	929.78	2161547.03	183871.54
5118.00	90.10	359.500	4453.71	924.52N	367.22W	2.92	949.74	2161546.77	183891.54
5205.00	90.30	359.000	4453.41	1011.51N	368.36W	0.62	1036.56	2161545.63	183978.53
5265.00	89.60	359.500	4453.46	1071.50N	369.15W	1.43	1096.45	2161544.85	184038.53
5357.00	90.50	0.100	4453.38	1163.50N	369.47W	1.18	1188.20	2161544.53	184130.52
5449.00	91.10	359.600	4452.09	1255.49N	369.71W	0.85	1279.94	2161544.29	184222.52

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Bottom hole distance is 3759.40 Feet on azimuth 354.32 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 14-Oct-2013

Standard Wellpath Report
Sandridge
Sec 14 - 33S - 6W, Kansas
Harper County
Wellbore: Oliver 3306 1-14H (Actual)

Wellpath (Grid) Report

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing
5542.00	90.70	359.400	4450.63	1348.48N	370.52W	0.48	1372.72	2161543.47	184315.50
5633.00	90.70	359.000	4449.52	1439.46N	371.79W	0.44	1463.54	2161542.20	184406.49
5726.00	90.60	359.100	4448.47	1532.44N	373.33W	0.15	1556.37	2161540.66	184499.47
5818.00	91.30	358.900	4446.94	1624.42N	374.94W	0.79	1648.20	2161539.06	184591.45
5910.00	91.10	0.000	4445.01	1716.39N	375.82W	1.21	1739.97	2161538.17	184683.42
6003.00	91.50	359.000	4442.90	1809.36N	376.63W	1.16	1832.74	2161537.36	184776.40
6095.00	91.50	0.300	4440.50	1901.33N	377.19W	1.41	1924.48	2161536.80	184868.36
6187.00	91.20	0.500	4438.33	1993.30N	376.55W	0.39	2016.14	2161537.44	184960.34
6279.00	90.40	359.400	4437.04	2085.29N	376.63W	1.48	2107.87	2161537.36	185052.33
6372.00	91.30	359.500	4435.66	2178.27N	377.52W	0.97	2200.65	2161536.47	185145.31
6463.00	91.90	1.200	4433.12	2269.23N	376.97W	1.98	2291.31	2161537.02	185236.27
6555.00	90.80	0.200	4430.96	2361.20N	375.84W	1.62	2382.92	2161538.15	185328.24
6650.00	90.10	0.600	4430.21	2456.19N	375.18W	0.85	2477.59	2161538.81	185423.24
6745.00	89.70	0.700	4430.37	2551.18N	374.10W	0.43	2572.23	2161539.89	185518.23
6840.00	90.70	0.400	4430.04	2646.18N	373.19W	1.10	2666.88	2161540.80	185613.23
6935.00	89.80	1.100	4429.63	2741.17N	371.95W	1.20	2761.50	2161542.04	185708.22
7029.00	89.30	1.600	4430.37	2835.14N	369.73W	0.75	2855.03	2161544.26	185802.19
7124.00	89.80	0.500	4431.11	2930.12N	367.99W	1.27	2949.60	2161546.00	185897.17
7219.00	89.00	0.000	4432.11	3025.11N	367.58W	0.99	3044.29	2161546.41	185992.17
7314.00	88.40	0.100	4434.26	3120.08N	367.50W	0.64	3138.98	2161546.50	186087.14
7408.00	90.50	0.300	4435.17	3214.07N	367.17W	2.24	3232.68	2161546.83	186181.13
7502.00	91.00	0.900	4433.93	3308.06N	366.18W	0.83	3326.32	2161547.81	186275.12
7597.00	90.60	1.100	4432.61	3403.04N	364.53W	0.47	3420.89	2161549.47	186370.10
7692.00	90.50	357.800	4431.70	3498.01N	365.44W	3.48	3515.66	2161548.56	186465.08
7787.00	89.70	358.700	4431.53	3592.97N	368.34W	1.27	3610.56	2161545.65	186560.04
7881.00	90.30	358.300	4431.53	3686.93N	370.80W	0.77	3704.45	2161543.19	186654.00
7935.00	90.30	358.300	4431.25	3740.91N	372.40W	==>	3758.39	2161541.59	186707.98

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