Confidentiality Requested:

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1183048

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 #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:, (e.gxxx.xxxxx)
Name:	Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	County:
Purchaser:	Lease Name: Well #:
Designate Type of Completion:	Field Name:
New Well Re-Entry Workover	Producing Formation:
☐ Oil ☐ WSW ☐ SWD ☐ SIOW ☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	Elevation: Ground: Kelly Bushing:
□ OG □ GSW □ Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to SWD Plug Back Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #: Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date Recompletion Date	Quarter Sec TwpS. 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:						

	Page Iwo	1183048		
Operator Name:	_ Lease Name:	Well #:		
Sec TwpS. R East _ West	County:			
INCTRUCTIONS. Chain important tang of formations papetrated	atail all aaraa Dapart all fina	Leaning of drill stome tests giving interval tested, time test		

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 (Attach Additional Sh	neets)	Yes No		-	on (Top), Depth a		Sample
Samples Sent to Geolo	gical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
		CASING Report all strings set-o	RECORD Ne		ion, 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 / SQL	EEZE RECORD			
Purpose:	Depth	Type of Cement	# Sacks Used		Type and F	Percent Additives	

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing				
Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?	
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	

165	L
Yes	
Yes	Γ

 No
 (If No, skip questions 2 and 3)

 No
 (If No, skip question 3)

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						ement Squeeze Record I of Material Used)	Depth		
TUBING RECORD:	Siz	ze:	Set At:		Packer	At:	Liner R	un:	No	
Date of First, Resumed	I Product	ion, SWD or ENHF	} .	Producing M	ethod:	oing	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
						l			1	
DISPOSITION OF GAS:			METHOD OF COMPLET		TION:		PRODUCTION INTE	RVAL:		
Vented Solo	d 🗌 l	Used on Lease	. (Open Hole	Perf.	Dually		Commingled		
(If vented, Su	ıbmit ACC	D-18.)		Other (Specify)		(Submit A	,	(Submit ACO-4)		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Bird 3319 1-6
Doc ID	1183048

Tops

Name	Тор	Datum
Anhydrite	2346	
Heebner	4153	
Lansing	4327	
Marmaton	4834	
Oswego	4875	
Pawnee	4923	
Cherokee	4950	
Morrow/Miss Unconformity	5045	
Mississippi/Meramec	5077	
Mississippi/Osage	5376	
Viola	5830	
Simpson	6131	
Oil Creek	6193	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Bird 3319 1-6
Doc ID	1183048

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Conductor	30	20	75	120	grout	10	see report
Surface	12.25	9.625	36	656	Class A	375	see report
Production	8.75	7	26	6188	Class A	745	see report



BASIN SERVICES, LLC P O BOX 4268 ABILENE, TX 79608-4268 Phone # (325)690-0053 Fax # (325)698-0055



TICKET NUMBER: WY-126-1 TICKET DATE: 09/30/2013

ELECTRONIC

YARD: WY WAYNOKA OK LEASE: Bird 3319 WELL#: 1-6H RIG #: Horizon 5 Co/St: COMANCHE, KS

SANDRIDGE ENERGY ***** DO NOT MAIL!!! ***** 123 ROBERT S KERR AVE OKLAHOMA CITY, OK 73102-6406

DESCRIPTION	QUANTITY	RATE	AMOUNT
9/30/2013 DRILLED 30" CONDUCTOR HOLE			
9/30/2013 20" CONDUCTOR PIPE (.250 WALL)			
9/30/2013 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING			
9/30/2013 DRILL & INSTALL 6' X 6' CELLAR TINHORN			
9/30/2013 DRILLED 20" MOUSE HOLE (PER FOOT)			
9/30/2013 16" CONDUCTOR PIPE (.250 WALL)			
9/30/2013 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE			
9/30/2013 WELDING SERVICES FOR PIPE & LIDS			
9/30/2013 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING			
CONCRETE			
9/30/2013 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR			
MOUSEHOLE PIPE)			
9/30/2013 20 YDS OF 10 SACK GROUT			
9/30/2013 TAXABLE ITEMS			6,900.00
9/30/2013 BID - TAXABLE ITEMS			14,350.00
Sub To			21,250.00
Tax COMANCHE COUNTY (6.3	•		434.70
I, the undersigned, acknowledge the acceptance of the above listed goods and/or services.	AL:	=	\$ 21,684.70

Approved Signature _____

ALLIED OIL & GAS SERVICES, LLC 059939 Federal Tax 1.D.# 20-5975804

EMIT TO P.O. BOX 93999 SERVICE POINT: SOUTHLAKE, TEXAS 76092 ale KS Medicine L 10/17/13 10/18/13 SEC. TWP. RANGE CALLED OUT 830 PM JOB START 700 AM ON LOCATION JOB FINISH 945 PM DATE 10/18/13 320 AM STATE LOCATION Colduter KS, South Sai, West Sailes COUNTY WELL # 3319 1-6 LEASE Bird inmche OLD OR NEW Circle one) 1 North into CONTRACTOR Horizon # 5 OWNER Sandridge Energy TYPE OF JOB Production HOLE SIZE 834 T.D.6211 CEMENT CASING SIZE 7 DEPTH 6/88 AMOUNT ORDERED 7455x 50:50 Class A: Pozt TUBING SIZE 2% Gel+, 4% FL-160+, 1% C-51 + 3# Kobsec, 2103x Class A+ DEPTH DRILL PIPE DEPTH .8% FL-160+, 2% CD-31, 30BBL Super Flush TOOL DEPTH PRES. MAX 1400 MINIMUM COMMON Class A 2/0, sx @ 17.90 3,759,00 MEAS. LINE SHOE JOINT 88 POZMIX @ CEMENT LEFT IN CSG. 85 GEL 0 PERFS. CHLORIDE @ DISPLACEMENT 233 1/2 BBLs Fresh H_O ASC @ EQUIPMENT Allied 50/50 Por Blend - Clush 745 v @ 14.40 10,728,00 F1-160 25/16 @ 18,90 4,743.90 (-5) 631bs @ 17.55 PUMPTRUCK Thinesch CEMENTER Jason 1105.65 Kalsen #558/555 223516, @ 0,98 2,190.30 HELPER Scott Priddy FL-160 158 lbs @ 18.90 BULK TRUCK 2,986.20 #561/553 CD-31 40163 @ 10.30 412.00 DRIVER Justin Bower Super Fluch 30BBL @ 58.70 BULK TRUCK 1761,00 DRIVER James @ #381/252 Bowen HANDLING 1034.02 c.A @ 2.48 2564.37 MILEAGE 1726, 34 +n/m x 2.60 4488.48

REMARKS:

Did (not circ Cenat
	AFE Number: DC13255
	Well Name: Bird 3319 1-6
	Code: \$20.380
	Amount: 27, 474
	Co. Man: Dous Lansley
	Co. Man Slos Droug Randout
	Notes:

CHARGE TO:	Idridge Energy	y
STREET		
CITY	STATE	ZIP

To: Allied Oil & Gas Services, LLC.

0.1

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

	TO
PRINTED NAME	DIS
SIGNATURE	

_____@_____ ______@______ @

0

0

PLUG & FLOAT EQUIPMENT

TOTAL 99,45

99.45

SALES TAX (If Any)

Plag

Rubber

TOTAL CHARGES 39, 248, 60

ISCOUNT ______ IF PAID IN 30 DAYS Net <u>27,474,02</u>

SERVICE

DEPTH OF JOB	6188'		
PUMP TRUCK CHAR	GE		3651.25
EXTRA FOOTAGE		@	
MILEAGE	401:	@ 7.70	308
MANIFOLD + Head		@	275
LV	40-1	@ 4.40	176
		a	

TOTAL 4410.25

TOTAL 29 788.90

ALLIED OIL & GAS SERVICES, LLC 059934 Federal Tax I.D.# 20-5975804 REMIT TO P.O. BOX 93999 SERVICE POINT; SOUTHLAKE, TEXAS 76092 Medicine Lodge KS CALLED OUT ON LOCATION SEC. 33S JOB START JOB FINISH RANGE DATE/0-9-13 W AM 1230PM 115PM BIRD 3319 COUNTY COMANCHE STATE 1-6 LEASE WELL# LOCATION 1:160 JUC, 5w 1'HN WINTO OLD OR NEW (Circle one) CONTRACTOR HORIZON OWNER SANDRIDGE BNARGV TYPE OF JOB SURFACE HOLE SIZE 12 14 CASING SIZE 95/8 656 CEMENT T.D. DEPTH 661.68 AMOUNT ORDERED 155 SK 65-35: 6% GBL 2200 **TUBING SIZE** + 14 # FLOSGAL, SX CLASSA + 2% CC+ 14# FLOSBAL DEPTH DRILL PIPE DEPTH TOOL DEPTH 800 PRES. MAX 120-12.90 2148.00 MINIMUM COMMON MEAS. LINE SHOE JOINT 44 POZMIX @ CEMENT LEFT IN CSG. 49 GEL. @ PERFS CHLORIDE 7 @ 64.00 448.00 DISPLACEMENT 48,00 BBLS Freh H.O ASC @ @ 2.97 \$ 115,83 FLO -SEAL 39685 EQUIPMENT 301.BS FLO-SEAL @ 2,97 89.10 CEMENTER SCOTT PRIDDY / SASIN THINISCH @ **PUMPTRUCK** ALLIED LT MOT 1555 @ 16,50 2537,50 #558.555 HELPER Scort PRIDOY @ BULK TRUCK @ DRIVER JAMES #561-553 BOWEN @ BULK TRUCK @ DRIVER # @ 248 751.13 HANDLING 307.85 2,00 1359.18 MILEAGE 527 76 +0/2: × **REMARKS:** TOTAL 7468.74 Press test, Pamp Safety neeting Spheer, concat, Release Plus, Disp ic, Floet Held SERVICE ISAJE AFE Number: DC132.5 Well Name: Bird 3319 Code: 830-360 Amount: 7330 Co. Man: Dous Langle

TOTAL	78	7.5

_____STATE _ ZIP **PLUG & FLOAT EQUIPMENT** 95/8 184.86 184.86 TOP RUBBOR PLUG @ @ To: Allied Oil & Gas Services, LLC, @ 0 You are hereby requested to rent cementing equipment @ and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL SALES TAX (If Any) -----TERMS AND CONDITIONS" listed on the reverse side. TOTAL CHARGES 10471.10 DISCOUNT

SIGNATURE

PRINTED NAME.

Co. Man Sig. Doug CHARGE TO: SHIND RIDGE

STREET

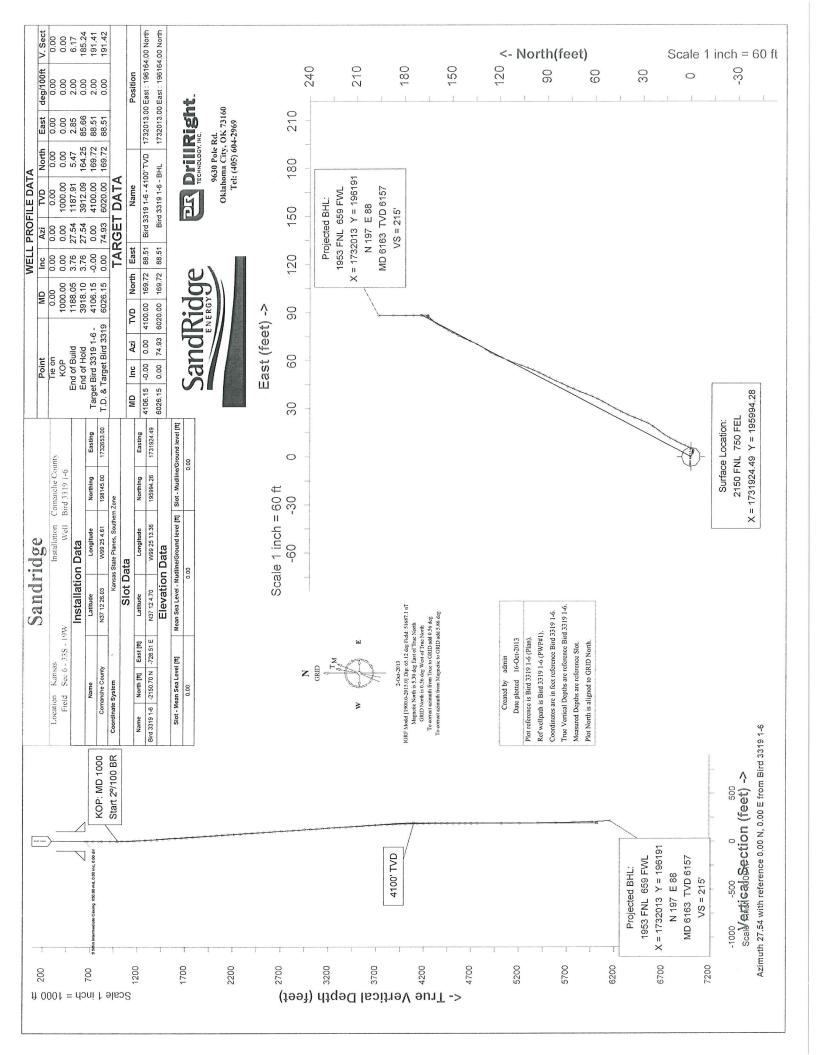
CITY_

TOTAL 184. 8

_____ IF PAID IN 30 DAYS Net _ 7329.77

PUMP TRUC	OB 661.68 FT		1 1.050 50
the second			12058,20
EXTRA FOO	TAGE	Ø	
MILEAGE	40 MI	@ 729	\$ 303,00
MANIFOLD	+ HEAD	@ 175	= J12 75, ==.
LY	40 M	@ 4.40	176.==
		@	

50 TOTAL 78



Standard Wellpath Report Sandridge Sec 6 - 33S - 19W, Kansas Comanche County Wellbore: Bird 3319 1-6 (Actual)

Wellnath	(Grid) Rep	ort				. ,					
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg	Vertical	Easting	Northing		
			•••			[deg/100ft]	Section[ft	_			
0.00	0.00	0.000	0.00	0.00N	0.00E] 0.00	1731924.49	195994.28		
673.00	0.40	110.900	672.99	0.84S	2.19E	0.06	0.27	1731926.68	195993.44		
733.00	0.30	90.500	732.99	0.91S	2.55E	0.26	0.37	1731927.03	195993.36		
795.00	0.50	121.000	794.99	1.05S	2.94E	0.46	0.42	1731927.43	195993.22		
825.00	0.30	85.000	824.99	1.12S	3.13E	1.04	0.46	1731927.62	195993.16		
917.00	0.50	122.000	916.99	1.31S	3.71E	0.34	0.56	1731928.20	195992.97		
980.00	0.30	79.800	979.99	1.42S	4.11E	0.54	0.64	1731928.59	195992.85		
1041.00	0.90	55.000	1040.98	1.12S	4.66E	1.05	1.16	1731929.14	195993.16		
1103.00	1.60	26.500	1102.97	0.07S	5.44E	1.48	2.46	1731929.93	195994.21		
1164.00	2.00	24.500	1163.94	1.66N	6.26E	0.66	4.37	1731930.75	195995.94		
1226.00	2.40	21.000	1225.89	3.86N	7.18E	0.68	6.74	1731931.66	195998.14		
1288.00	2.80	23.100	1287.83	6.47N	8.24E	0.66	9.54	1731932.72	196000.74		
1350.00	3.70	27.600	1349.73	9.63N	9.76E	1.51	13.05	1731934.24	196003.91		
1411.00	4.00	28.700	1410.59	13.24N	11.69E	0.51	17.15	1731936.18	196007.52		
1473.00	4.00	34.100	1472.44	16.93N	13.94E	0.61	21.46	1731938.43	196011.21		
1537.00	3.90	37.600	1536.29	20.50N	16.52E	0.41	25.82	1731941.01	196014.78		
1599.00	4.00	32.900	1598.14	23.99N	18.98E	0.55	30.05	1731943.47	196018.27		
1662.00	3.80	27.000	1661.00	27.69N	21.12E	0.71	34.32	1731945.61	196021.97		
1725.00	4.00	21.600	1723.85	31.60N	22.88E	0.66	38.60	1731947.37	196025.87		
1788.00	4.10	22.100	1786.69	35.73N	24.54E	0.17	43.02	1731949.02	196030.00		
1851.00	4.30	22.900	1849.52	39.99N	26.30E	0.33	47.62	1731950.79	196034.27		
1912.00	4.10	27.100	1910.36	44.04N	28.19E	0.60	52.08	1731952.67	196038.31		
1975.00	4.00	26.800	1973.20	48.00N	30.20E	0.16	56.53	1731954.69	196042.28		
2038.00	3.90	29.300	2036.05	51.83N	32.24E	0.32	60.87	1731956.73	196046.11		
2101.00	3.70	27.800	2098.91	55.50N	34.24E	0.35	65.04	1731958.72	196049.78		
2162.00	3.80	29.400	2159.78	59.00N	36.15E	0.24	69.03	1731960.64	196053.28		
2223.00	3.60	21.500	2220.66	62.54N	37.84E	0.90	72.95	1731962.33	196056.82		
2285.00	3.90	20.000	2282.52	66.34N	39.28E	0.51	76.98	1731963.76	196060.61		
2346.00	3.80	22.400	2343.39	70.15N	40.76E	0.31	81.05	1731965.24	196064.43		
2409.00	3.90	22.600	2406.24	74.06N	42.38E	0.16	85.26	1731966.86	196068.34		
2470.00	3.70	26.200	2467.11	77.74N	44.04E	0.51	89.30	1731968.53	196072.02		
2531.00	3.90	25.000	2527.98	81.39N	45.79E	0.35	93.34	1731970.27	196075.67		
2593.00	3.90	22.900	2589.83	85.24N	47.50E	0.23	97.55	1731971.99	196079.52		
2654.00	3.70	26.200	2650.70	88.92N	49.18E	0.49	101.58	1731973.66	196083.20		
2715.00	3.60	26.800	2711.58	92.40N	50.91E	0.18	105.46	1731975.39	196086.67		
2777.00	3.40	27.500	2773.46	95.76N	52.64E	0.33	109.25	1731977.12	196090.04		
2838.00	3.70	22.700	2834.34	99.18N	54.23E	0.69 0.36	113.02	1731978.72 1731980.23	196093.46 196097.21		
2899.00	3.90	21.400	2895.21	102.93N	55.75E	0.58	117.04 121.31	1731980.23	196101.26		
2960.00	4.20 4.10	18.800	2956.06 3017.89	106.98N	57.22E 58.74E	0.58	125.76	1731983.23	196105.48		
3022.00 3083.00	3.70	20.800 24.200	3078.75	111.20N 115.03N	60.32E	0.28	129.89	1731984.81	196109.31		
3145.00	3.90	22.000	3140.62	118.81N	61.93E	0.40	133.99	1731986.42	196113.09		
3207.00	3.90	20.700	3202.48	122.64N	63.43E	0.35	138.07	1731987.92	196116.92		
3269.00	3.40	30.700	3264.36	126.09N	65.08E	1.11	141.89	1731989.56	196120.37		
3330.00	3.00	35.500	3325.27	128.95N	66.93E	0.79	145.28	1731991.41	196123.22		
3392.00	3.00	33.800	3387.18	131.61N	68.77E	0.14	148.50	1731993.26	196125.89		
3453.00	4.00	24.800	3448.07	134.87N	70.55E	1.87	152.21	1731995.04	196129.15		
3514.00	4.20	23.700	3508.91	138.85N	72.34E	0.35	156.56	1731996.83	196133.13		
3576.00	4.10	22.700	3570.75	142.97N	74.11E	0.20	161.04	1731998.60	196137.25		
3638.00	3.70	27.700	3632.60	146.79N	75.90E	0.85	165.25	1732000.38	196141.07		
3701.00	3.20	25.900	3695.49	150.17N	77.61E	0.81	169.04	1732002.09	196144.45		
3764.00	2.90	29.000	3758.40	153.15N	79.15E	0.54	172.39	1732003.63	196147.42		
3827.00	2.50	32.600	3821.33	155.70N	80.66E	0.69	175.35	1732005.15	196149.98		
3890.00	2.30	25.300	3884.28	158.00N	81.94E	0.58	177.98	1732006.43	196152.28		
3953.00	1.70	26.500	3947.24	159.98N	82.90E	0.95	180.18	1732007.39	196154.26		
4016.00	1.70	43.100	4010.21	161.50N	83.96E	0.78	182.01	1732008.44	196155.77		
4079.00	1.40	43.300	4073.19	162.74N	85.12E	0.48	183.66	1732009.61	196157.02		
4142.00	1.20	35.100	4136.17	163.84N	86.03E	0.43	185.05	1732010.51	196158.12		
4205.00	1.00	53.700	4199.16	164.70N	86.85E	0.65	186.20	1732011.34	196158.98		
4269.00	1.10	55.900	4263.15	165.38N	87.81E	0.17	187.24	1732012.30	196159.66		
4332.00	0.10	116.000	4326.14	165.69N	88.36E	1.67	187.77	1732012.85	196159.97		
4395.00	0.30	293.100	4389.14	165.73N	88.26E	0.63	187.76	1732012.74	196160.01		
4458.00	0.30	307.300	4452.14	165.90N	87.97E	0.12	187.78	1732012.46	196160.18		
4521.00	0.20	271.800	4515.14	166.00N	87.73E	0.29	187.76	1732012.22	196160.28		
4584.00	0.30	254.600	4578.14	165.96N	87.46E	0.20	187.60	1732011.95	196160.24		
4648.00	0.10	6.900	4642.14	165.97N	87.31E	0.55	187.53	1732011.80	196160.25		
4711.00	0.00	327.700	4705.14	166.03N	87.32E	0.16	187.59	1732011.80	196160.31		
4774.00	0.10	142.800	4768.14	165.98N	87.35E	0.16	187.56	1732011.84	196160.26		
5026.00	0.30	54.900	5020.14	166.19N	88.02E	0.12	188.06	1732012.51	196160.47		
5216.00	0.50	0.000	5210.14	167.30N	88.43E	0.22	189.23	1732012.92	196161.58		
5405.00	1.30	0.000	5399.11	170.27N	88.43E	0.42	191.86	1732012.92	196164.55		
5594.00	1.50	0.000	5588.05	174.89N	88.43E	0.11	195.96	1732012.92	196169.17		

All data is in Feet unless otherwise stated Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Bird 3319 1-6 0.00ft above Mean Sea Level) Vertical Section is from 0.00N 0.00E on azimuth 27.540 degrees Bottom hole distance is 215.69 Feet on azimuth 24.20 degrees from Wellhead Calculation method uses Minimum Curvature method Prepared by Date Printed: 16-Oct-2013

Standard Wellpath Report Sandridge Sec 6 - 33S - 19W, Kansas Comanche County Wellbore: Bird 3319 1-6 (Actual)

Wellpath (Grid) Report											
	MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	Easting	Northing	
	5784.00	1.50	0.000	5777.99	179.86N	88.43E	==>	200.37	1732012.92	196174.14	
	5973.00	3.10	0.000	5966.83	187.45N	88.43E	0.85	207.09	1732012.92	196181.73	
	6163.00	2.50	0.000	6156.60	196.73N	88.43E	0.32	215.32	1732012.92	196191.01	

All data is in Feet unless otherwise stated Coordinates are from Slot MD's are from Slot and TVD's are from Slot (Bird 3319 1-6 0.00ft above Mean Sea Level) Vertical Section is from 0.00N 0.00E on azimuth 27.540 degrees Bottom hole distance is 215.69 Feet on azimuth 24.20 degrees from Wellhead Calculation method uses Minimum Curvature method Prepared by Date Printed: 16-Oct-2013