

ORIGINAL

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1
September 1999
Form Must Be Typed

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

Operator: License # 4485
Name: Verde Oil Company
Address: 1020 NE Loop 410, Suite 555
City/State/Zip: San Antonio, TX 78209
Purchaser: Coffeyville Resources
Operator Contact Person: Jeffrey L. Dale
Phone: (620) 754-3800
Contractor: Name: McPherson Drilling
License: 5675
Wellsite Geologist: Jeffrey L. Dale

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, 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./SWD
 Plug Back _____ Plug Back Total Depth _____
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Enhr.?) _____ Docket No. _____

<u>December 2, 2005</u>	<u>December 20, 2005</u>	<u>March 20, 2006</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 001-29344-01-00
County: Allen
W2 E2 E2 SW Sec. 29 Twp. 26 S. R. 20 East West
1320 feet from S N (circle one) Line of Section
3075 feet from E W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Manson Well #: 1-H
Field Name: Humboldt/Chanute
Producing Formation: Bartlesville Tucker
Elevation: Ground: 989' Kelly Bushing: NA
Total Depth: 1112' Plug Back Total Depth: 1112'
Amount of Surface Pipe Set and Cemented at 21.5 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 735'
feet depth to 0' w/ 143 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content 200 ppm Fluid volume 100 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: [Signature]
Title: Geologist Date: June 26, 2006
Subscribed and sworn to before me this 26 day of June,
2006.
Notary Public: Kaylene Dick
Date Commission Expires: 10-11-09

KAYLENE DICK
Notary Public - State of Kansas
My Appt. Expires _____

KCC Office Use ONLY
 Letter of Confidentiality Received
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
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J.A.

Operator Name: Verde Oil Company Lease Name: Manson Well #: 1-H
 Sec. 29 Twp. 26 S. R. 20 East West County: Allen

INSTRUCTIONS: Show important tops and base 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run:	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Tucker 812' TVD +177'
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Gyro, Compensated Neutron / Resistivity

CASING RECORD <input checked="" 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
Surface	11.0"	8-5/8"	21.0	21.5	Class A	4	Neat
Production	7-7/8"	5-1/5"	15.5	735'	Class A	143	2% gel, 1/4# sx celloflake

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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
None	Openhole Horizontal	Natural	735' - 1112'

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		2-7/8"	731'	NA		
Date of First, Resumerd Production, SWD or Enhr. March 20, 2006			Producing Method			
			<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	
	2.0	TSTM	85.0	TSTM	22.0	

Disposition of Gas Vented Sold Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION

Open Hole Perf. Dually Comp. Commingled
 Other (Specify) _____

Production Interval

McPherson Drilling LLC Drillers Log

Rig Number: 2	S. 29 T. 26S R. 20E
API No. 15- 001-29344	County: AL
Elev. 989	Location: W/2 E/2 E/2 SW

Operator: Verde Oil Co.	Lease Name: Manson
Address: 1020 NE Loop 410 Suite 555 San Antonio, TX 78209	
Well No: 1-H	
Footage Location:	1320 ft. from the South Line 3075 ft. from the West Line
Drilling Contractor: McPherson Drilling LLC	
Spud date: 12/2/2005	Geologist: Jeff
Date Completed: 12/5/2005	Total Depth: 737'

Gas Tests:	
None	MCF
	MCF
	MCF
	MCF
	MCF
	MCF
	MCF
Comments:	

Casing Record			Rig Time:
	Surface	Production	Moving 2 hr. rig time @ 300.00/hr
Size Hole:	11"	7 7/8"	
Size Casing:	8 5/8"		
Weight:	20#		
Setting Depth:	21.5	McP	
Type Cement:	Port	McP	
Sacks:	4		

Well Log								
Formation	Top	Btm.	Formation	Top	Btm.	Formation	Top	Btm.
soil/clay	0	6	ORIGINAL					
lime	6	56						
shale	56	67						
lime	67	148						
shale	148	252						
lime	252	261						
shale	261	303						
lime	303	433						
shale	433	479						
lime	479	493						
shale/sand	493	737 TD						

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CONSOLIDATED OIL WELL SERVICES, INC.
 211 W. 14TH STREET, CHANUTE, KS 66720
 620-431-9210 OR 800-487-8676

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TICKET NUMBER 4994
 LOCATION Ottawa KS
 FOREMAN Fred Mader

**TREATMENT REPORT & FIELD TICKET
 CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
12-5-05	8520	Manson # 1-H	29	26	20	AL	
CUSTOMER Verde Oil (2002)			TRUCK #	DRIVER	TRUCK #	DRIVER	
MAILING ADDRESS 3345 Arizona Rd			372	Fred	195	Jason	
CITY Sawenburg			164	Rick			
STATE KS			369	Casey			
ZIP CODE 66772			370	Joe			
JOB TYPE	LONG STRING	HOLE SIZE	7 7/8	HOLE DEPTH	737'	CASING SIZE & WEIGHT	5 1/2"
CASING DEPTH	737'	DRILL PIPE		TUBING	BATTLE @ 706'	OTHER:	
SLURRY WEIGHT		SLURRY VOL		WATER gal/sk		CEMENT LEFT in CASING	Shoe Joint
DISPLACEMENT	16.7 BBL	DISPLACEMENT PSI		MIX PSI		RATE	5 BPM

REMARKS: Establish circulation mix & Pump 200 # Premium Gel
 Flush Mix & Pump 11 BBL Telltale dye Ahead of 146 SKS
 50/50 Poz Mix Cement w/ 2% Gel + 1/4" Flo-Seal per sack
 Flush pump clean. Displace 5 1/2" Rubber plug to Battle
 Plate @ 706' w/ 16.7 BBLs Fresh Water. Pressure
 to 600 # PSI. Release pressure to set Flood valve.
 Check Plug depth w/ measuring line.
 Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE Cement Pump		800.00
5406	70 mi	MILEAGE Pump Truck	164	220.50
5407A	6.205 T.	Ton Mileage	195	456.07
5502L	8			720.00
1124	143 SKS	50/50 Poz Mix Cement		1136.85
1118B	10 SKS	Premium Gel		70.00
11107	1 SKS	Flo-Seal		44.90
		Sub Total		3748.32
		Tax @ 6.3%		78.86
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SALES TAX ESTIMATED TOTAL				3527.18

PLAN VIEW COMPU-LOG DEVIATION

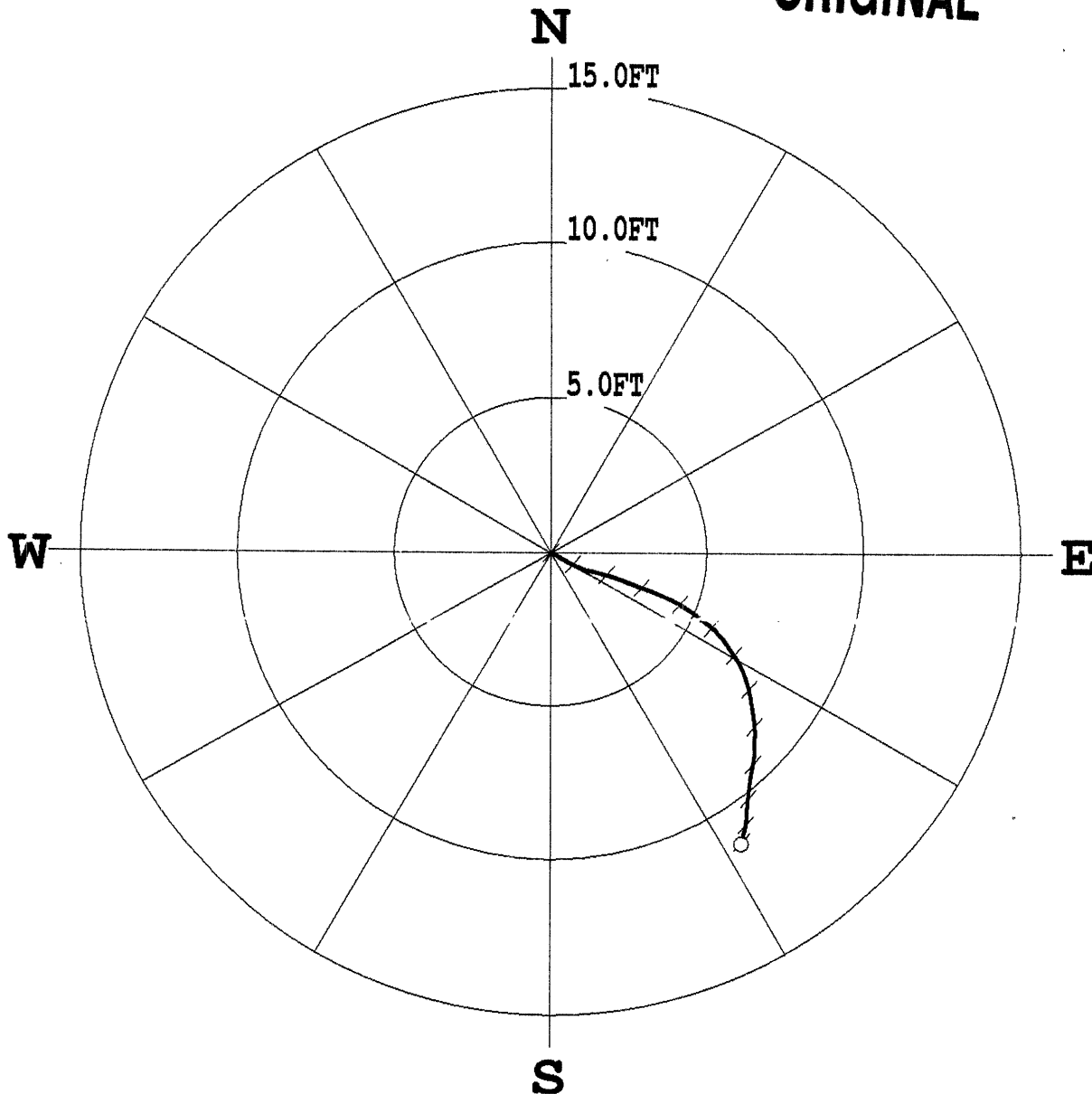
CLIENT: GRAND RESOURCES
LOCATION:
WELL ID: MANSON # 1 H DOWN LOG
DATE OF LOG: 12/15/05
WELL NO: 9096C 1223



MAG DECL: 0.0

SCALE: 5 FT/IN
TRUE DEPTH: 610.25 FT
AZIMUTH: 147.2
DISTANCE: 11.2 FT
+ = 50 FT INCR
○ = BOTTOM OF HOLE

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CLIENT : GRAND RESOURCES HOLE ID. : MANSON # 1 H
 FIELD OFFICE : DATE OF LOG : 12/15/05
 DATA FROM : PROBE : 9096C , 1223
 MAG. DECL. : 0.000 DEPTH UNITS : FEET
 LOG: MANSON#1HDOWNLOG_12-15-05_12-43_9096C_.10_0.00_610.40_GYRO.log

TABLE DEPTH	TRUE DEPTH	NORTH DEV.	EAST DEV.	DISTANCE	AZIMUTH	SANG	SANGB
0.00	0.20	0.00	0.00	0.0	0.0	0.0	109.4
20.00	20.00	-0.08	0.19	0.2	113.3	0.9	127.5
40.00	40.00	-0.27	0.51	0.6	117.9	1.4	123.7
60.00	59.99	-0.46	0.90	1.0	117.3	1.3	113.8
80.00	79.99	-0.59	1.32	1.4	114.2	1.4	99.4
100.00	99.98	-0.71	1.77	1.9	112.0	1.2	96.4
120.00	119.97	-0.87	2.21	2.4	111.4	1.1	101.8
140.00	139.97	-1.04	2.66	2.9	111.4	1.2	113.4
160.00	159.96	-1.22	3.14	3.4	111.2	1.5	106.9
180.00	179.95	-1.43	3.63	3.9	111.4	1.7	120.8
200.00	199.95	-1.67	4.11	4.4	112.1	1.4	117.9
220.00	219.94	-1.96	4.55	5.0	113.3	1.5	130.9
240.00	239.93	-2.25	4.95	5.4	114.4	1.3	136.0
260.00	259.93	-2.57	5.31	5.9	115.8	1.4	138.4
280.00	279.92	-2.91	5.60	6.3	117.5	1.2	144.6
300.00	299.92	-3.29	5.84	6.7	119.4	1.3	141.1
320.00	319.91	-3.72	6.09	7.1	121.4	1.2	152.5
340.00	339.91	-4.17	6.25	7.5	123.7	1.6	165.7
360.00	359.90	-4.66	6.37	7.9	126.2	1.5	168.9
380.00	379.89	-5.14	6.45	8.3	128.6	1.4	170.7
400.00	399.89	-5.62	6.51	8.6	130.8	1.3	174.3
420.00	419.88	-6.09	6.50	8.9	133.1	1.4	183.9
440.00	439.87	-6.60	6.49	9.3	135.5	1.2	181.1
460.00	459.87	-7.07	6.41	9.5	137.8	1.3	190.9
480.00	479.86	-7.53	6.34	9.8	139.9	1.4	188.5
500.00	499.86	-7.97	6.29	10.2	141.7	1.1	183.2
520.00	519.85	-8.33	6.26	10.4	143.1	1.1	178.0
540.00	539.85	-8.66	6.24	10.7	144.2	0.8	195.4
560.00	559.85	-8.96	6.20	10.9	145.3	0.8	186.0
580.00	579.85	-9.21	6.14	11.1	146.3	0.5	193.9
600.00	599.85	-9.39	6.10	11.2	147.0	0.3	201.0
610.40	610.25	-9.45	6.09	11.2	147.2	0.4	359.0

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GRAND DIRECTIONS, LLC

Company:	Verde Oil Company	State/County:	Kansas/Allen
Lease/Well:	Manson #1-H	Declination:	4.5
Location:	W/2E/2E/2 SW 29-26-20	Grid:	-2.621
Rig Name:	Grand #3	Date:	12/20/2005
Ground Level:	989'	Total Depth:	1112'

WIRELINE SURVEY CALCULATIONS

Mininium Curvature Method

Vertical Section Plane: 270.00

Vertical Section Referenced to Wellhead

Rectangular Coordinates Referenced to Wellhead

Measured Depth (ft)	Incl. Angle Deg	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
723.70	0.30	345.10	723.70	-1.83	0.49	-0.49	0.04
724.60	1.10	111.80	724.60	-1.83	0.48	-0.48	144.63
725.60	1.50	196.70	725.60	-1.81	0.47	-0.47	177.94
726.60	3.90	328.80	726.60	-1.83	0.50	-0.50	503.01
727.60	0.90	274.20	727.59	-1.86	0.52	-0.52	345.73
728.60	1.80	86.40	728.59	-1.86	0.51	-0.51	269.44
729.60	1.00	150.20	729.59	-1.86	0.49	-0.49	162.80
730.60	3.50	62.20	730.59	-1.86	0.46	-0.46	360.62
731.60	0.90	224.70	731.59	-1.87	0.44	-0.44	436.67
732.60	2.90	283.20	732.59	-1.87	0.47	-0.47	254.80
733.60	0.90	177.40	733.59	-1.87	0.50	-0.50	326.20
734.60	2.10	206.00	734.59	-1.84	0.50	-0.50	137.88

5-1/2" casing set @ 735 ft MD							
735.60	0.90	10.50	735.59	-1.84	0.51	-0.51	297.70
736.60	1.60	63.30	736.59	-1.85	0.50	-0.50	127.62
737.60	0.50	9.60	737.59	-1.86	0.48	-0.48	136.48
738.60	0.80	290.50	738.59	-1.87	0.49	-0.49	85.95
739.60	1.60	353.40	739.59	-1.88	0.50	-0.50	142.61
740.60	2.10	352.40	740.59	-1.92	0.50	-0.50	50.10
741.60	1.40	333.50	741.59	-1.94	0.51	-0.51	89.83
742.60	1.50	23.00	742.59	-1.97	0.51	-0.51	121.74
743.60	7.90	187.60	743.59	-1.91	0.51	-0.51	935.46
744.60	0.70	337.10	744.58	-1.85	0.52	-0.52	851.05
745.60	1.50	244.60	745.58	-1.85	0.54	-0.54	168.27
746.60	0.70	252.50	746.58	-1.84	0.56	-0.56	81.24

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Measured Depth (ft)	Incl. Angle Deg	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
747.60	0.60	263.40	747.58	-1.84	0.57	-0.57	15.86
748.60	2.70	169.70	748.58	-1.81	0.57	-0.57	280.34
749.60	0.50	222.90	749.58	-1.79	0.57	-0.57	243.36
750.60	0.80	210.40	750.58	-1.78	0.57	-0.57	33.01
751.60	0.80	276.50	751.58	-1.77	0.58	-0.58	87.26
752.60	0.10	304.70	752.58	-1.78	0.59	-0.59	71.34
753.60	0.60	286.10	753.58	-1.78	0.60	-0.60	50.62
754.60	1.50	209.00	754.58	-1.77	0.61	-0.61	148.60
755.60	1.10	242.00	755.58	-1.75	0.62	-0.62	83.20
756.60	1.00	335.20	756.58	-1.75	0.64	-0.64	152.73
757.60	1.40	340.30	757.58	-1.77	0.64	-0.64	41.36
758.60	1.40	311.20	758.58	-1.79	0.66	-0.66	70.34
759.60	1.10	344.70	759.58	-1.81	0.67	-0.67	77.56
760.60	2.70	326.90	760.58	-1.84	0.68	-0.68	168.65
761.60	1.40	326.40	761.58	-1.87	0.70	-0.70	130.01
762.60	0.50	281.10	762.58	-1.88	0.71	-0.71	110.69
763.60	1.50	324.60	763.58	-1.89	0.73	-0.73	118.82
764.60	2.00	255.50	764.58	-1.90	0.75	-0.75	202.70
765.60	1.90	248.50	765.58	-1.89	0.78	-0.78	25.81
766.60	4.20	291.10	766.58	-1.90	0.83	-0.83	308.20
767.60	4.90	298.40	767.57	-1.93	0.90	-0.90	90.72
768.60	3.40	230.50	768.57	-1.93	0.96	-0.96	479.69
769.60	5.60	269.50	769.57	-1.91	1.04	-1.04	364.85
770.60	7.80	284.00	770.56	-1.93	1.15	-1.15	275.87
771.60	6.80	266.30	771.55	-1.94	1.28	-1.28	244.85
772.60	9.40	284.20	772.54	-1.96	1.41	-1.41	359.29
773.60	9.20	273.30	773.53	-1.98	1.57	-1.57	177.01
774.60	9.50	270.40	774.52	-1.99	1.74	-1.74	55.85
775.60	11.30	276.60	775.50	-2.00	1.92	-1.92	211.71
776.60	10.90	268.30	776.48	-2.01	2.11	-2.11	164.57
777.60	12.80	275.00	777.46	-2.01	2.31	-2.31	234.28
778.60	13.00	272.60	778.44	-2.03	2.53	-2.53	57.19
779.60	13.90	275.10	779.41	-2.04	2.77	-2.77	107.13
780.60	15.80	277.20	780.38	-2.07	3.02	-3.02	197.45
781.60	16.40	276.50	781.34	-2.10	3.30	-3.30	63.06
782.60	18.00	278.60	782.29	-2.14	3.59	-3.59	171.60
783.60	18.70	278.90	783.24	-2.19	3.90	-3.90	70.63
784.60	19.40	279.30	784.19	-2.24	4.22	-4.22	71.21
785.60	20.20	275.80	785.13	-2.29	4.56	-4.56	142.99
786.60	20.70	274.90	786.06	-2.32	4.91	-4.91	59.06
787.60	20.60	272.10	787.00	-2.34	5.26	-5.26	99.24
788.60	23.40	277.20	787.93	-2.37	5.63	-5.63	338.73
789.60	24.20	277.00	788.84	-2.42	6.03	-6.03	80.41
790.60	27.50	284.50	789.74	-2.51	6.46	-6.46	464.01
791.60	25.20	274.60	790.64	-2.58	6.90	-6.90	495.23
792.60	27.20	278.60	791.54	-2.63	7.33	-7.33	266.71
793.60	29.10	281.60	792.42	-2.71	7.80	-7.80	236.87

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Measured Depth (ft)	Incl. Angle Deg	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
794.60	28.30	275.90	793.30	-2.79	8.27	-8.27	285.07
795.60	30.40	278.90	794.17	-2.85	8.76	-8.76	256.31
796.60	31.50	280.80	795.02	-2.94	9.26	-9.26	147.12
797.60	32.20	280.40	795.87	-3.04	9.78	-9.78	73.11
798.60	32.40	277.50	796.72	-3.12	10.31	-10.31	156.24
799.60	32.90	276.60	797.56	-3.19	10.85	-10.85	69.70
800.60	31.20	269.50	798.41	-3.21	11.38	-11.38	413.08
801.60	38.00	286.50	799.23	-3.30	11.93	-11.93	1175.44
802.60	37.10	280.70	800.03	-3.44	12.52	-12.52	364.65
803.60	35.80	275.10	800.83	-3.53	13.11	-13.11	357.08
804.60	38.70	281.10	801.63	-3.61	13.71	-13.71	464.49
805.60	39.70	280.30	802.40	-3.73	14.33	-14.33	112.05
806.60	41.10	282.80	803.16	-3.86	14.97	-14.97	214.11
807.60	39.80	277.70	803.92	-3.97	15.60	-15.60	355.41
808.60	41.60	280.00	804.68	-4.08	16.25	-16.25	234.27
809.60	42.80	280.80	805.42	-4.20	16.91	-16.91	131.48
810.60	46.20	287.00	806.14	-4.37	17.59	-17.59	551.47
811.60	45.20	282.70	806.84	-4.55	18.28	-18.28	323.54
812.60	46.90	284.50	807.53	-4.72	18.98	-18.98	213.75
813.60	49.30	288.30	808.20	-4.93	19.69	-19.69	370.87
814.60	49.10	285.80	808.85	-5.15	20.42	-20.42	190.30
815.60	55.50	297.80	809.46	-5.45	21.15	-21.15	1143.34
816.60	52.90	291.10	810.05	-5.78	21.88	-21.88	602.21
817.60	51.90	286.30	810.66	-6.04	22.63	-22.63	393.17
818.60	52.20	285.40	811.27	-6.25	23.39	-23.39	77.05
819.60	53.20	285.50	811.88	-6.46	24.16	-24.16	100.32
820.60	56.20	290.30	812.46	-6.72	24.93	-24.93	493.30
821.60	57.00	290.40	813.01	-7.01	25.72	-25.72	80.43
822.60	56.50	287.50	813.56	-7.28	26.51	-26.51	247.61
823.60	63.10	299.40	814.06	-7.62	27.30	-27.30	1220.68
824.60	56.40	282.80	814.57	-7.94	28.10	-28.10	1580.11
825.60	58.70	286.70	815.10	-8.15	28.91	-28.91	401.46
826.60	105.50	333.60	815.25	-8.77	29.61	-29.61	6492.78
827.60	69.80	306.10	815.29	-9.52	30.24	-30.24	4477.32
828.60	94.20	328.90	815.43	-10.24	30.89	-30.89	3311.77
829.60	64.00	291.20	815.62	-10.87	31.61	-31.61	4738.01
830.60	54.50	264.80	816.14	-11.00	32.45	-32.45	2449.80
831.60	79.10	312.20	816.55	-11.31	33.27	-33.27	4938.89
832.60	47.90	238.80	817.04	-11.47	34.05	-34.05	7043.21
833.60	49.00	235.20	817.71	-11.06	34.68	-34.68	290.98
834.60	57.50	262.80	818.31	-10.79	35.42	-35.42	2356.85
835.60	69.60	292.70	818.76	-10.92	36.29	-36.29	2924.18
836.60	73.10	298.10	819.08	-11.33	37.14	-37.14	619.80
837.60	70.30	290.40	819.40	-11.72	38.01	-38.01	782.70
838.60	63.40	270.50	819.79	-11.89	38.90	-38.90	1952.59
839.60	99.30	325.10	819.95	-12.34	39.72	-39.72	6397.27
840.60	45.10	203.90	820.40	-12.47	40.41	-40.41	11843.67

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JUN 29 2006
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Measured Depth (ft)	Incl. Angle Deg	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
841.60	69.50	280.80	820.99	-12.21	41.09	-41.09	6657.30
842.60	95.90	319.70	821.12	-12.70	41.92	-41.92	4644.12
843.60	73.30	285.40	821.22	-13.23	42.74	-42.74	4075.35
844.60	74.10	285.90	821.50	-13.49	43.66	-43.66	93.29
845.60	70.50	274.00	821.81	-13.65	44.60	-44.60	1189.04
846.60	109.70	325.20	821.80	-14.12	45.42	-45.42	6366.83
847.60	65.00	255.20	821.86	-14.45	46.28	-46.28	8140.96
848.60	46.80	212.30	822.43	-14.01	46.94	-46.94	3935.14
849.60	82.60	294.10	822.92	-13.88	47.71	-47.71	7897.29
850.60	58.80	232.20	823.28	-13.82	48.59	-48.59	6220.88
851.60	114.60	325.50	823.35	-13.98	49.44	-49.44	10509.46
852.60	107.40	322.90	822.99	-14.73	49.99	-49.99	759.74
853.60	94.90	307.40	822.80	-15.42	50.68	-50.68	1965.80
854.60	78.40	273.70	822.86	-15.77	51.59	-51.59	3736.29
855.60	109.20	321.70	822.79	-16.21	52.44	-52.44	5643.54
856.60	105.70	316.30	822.49	-16.93	53.07	-53.07	622.70
857.60	102.20	314.80	822.25	-17.62	53.75	-53.75	379.06
858.60	96.90	305.50	822.08	-18.25	54.50	-54.50	1058.91
859.60	85.20	283.00	822.06	-18.66	55.41	-55.41	2532.20
860.60	81.10	271.90	822.18	-18.79	56.39	-56.39	1175.62
861.60	85.50	282.30	822.30	-18.91	57.37	-57.37	1122.45
862.60	96.00	304.00	822.29	-19.30	58.29	-58.29	2407.77
863.60	107.20	315.60	822.08	-19.93	59.04	-59.04	1593.98
864.60	88.70	287.90	821.94	-20.44	59.87	-59.87	3297.89
865.60	95.40	301.70	821.91	-20.85	60.78	-60.78	1532.54
866.60	97.90	305.60	821.79	-21.40	61.60	-61.60	461.01
867.60	101.80	310.70	821.62	-22.01	62.38	-62.38	635.99
868.60	105.90	313.70	821.38	-22.66	63.10	-63.10	502.89
869.60	99.80	308.10	821.16	-23.30	63.83	-63.83	818.44
870.60	79.10	264.70	821.17	-23.58	64.76	-64.76	4786.58
871.60	98.10	305.40	821.20	-23.83	65.70	-65.70	4473.37
872.60	102.50	312.40	821.02	-24.45	66.47	-66.47	817.10
873.60	81.00	269.10	820.98	-24.79	67.38	-67.38	4809.36
874.60	99.80	308.00	820.98	-25.10	68.30	-68.30	4304.49
875.60	80.20	267.20	820.98	-25.39	69.23	-69.23	4508.21
876.60	93.90	299.50	821.03	-25.62	70.19	-70.19	3497.30
877.60	85.70	281.50	821.03	-25.97	71.12	-71.12	1976.57
878.60	96.50	303.20	821.01	-26.35	72.04	-72.04	2420.65
879.60	98.00	305.60	820.89	-26.91	72.86	-72.86	281.39
880.60	85.50	281.40	820.86	-27.30	73.77	-73.77	2718.45
881.60	107.00	317.40	820.74	-27.77	74.62	-74.62	4155.30
882.60	96.90	305.30	820.54	-28.42	75.35	-75.35	1554.70
883.60	100.50	309.70	820.39	-29.02	76.13	-76.13	564.54
884.60	71.10	246.00	820.47	-29.16	77.06	-77.06	6932.08
885.60	102.40	312.80	820.53	-29.32	77.98	-77.98	7287.53
886.60	80.70	269.60	820.50	-29.67	78.88	-78.88	4809.46
887.60	97.60	305.50	820.52	-29.96	79.82	-79.82	3955.63

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JUN 29 2006
KCC WICHITA

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888.60	80.40	269.00	820.54	-30.26	80.75	-80.75	4021.91
889.60	85.20	280.80	820.66	-30.34	81.74	-81.74	1264.92
890.60	98.30	305.90	820.63	-30.73	82.65	-82.65	2825.35
891.60	71.50	247.30	820.73	-30.85	83.58	-83.58	6369.78
892.60	109.00	318.80	820.72	-31.06	84.48	-84.48	7955.98
893.60	100.30	311.10	820.47	-31.74	85.17	-85.17	1144.79
894.60	76.30	259.70	820.50	-32.00	86.09	-86.09	5635.71
895.60	81.80	273.00	820.69	-31.94	87.07	-87.07	1416.28
896.60	73.10	252.20	820.91	-31.82	88.03	-88.03	2206.29
897.60	100.00	309.20	820.98	-32.00	88.96	-88.96	6243.72
898.60	70.40	243.50	821.07	-32.11	89.89	-89.89	7112.35
899.60	72.80	250.20	821.38	-31.74	90.76	-90.76	679.45
900.60	95.80	303.60	821.49	-31.87	91.70	-91.70	5753.65
901.60	79.70	268.00	821.53	-32.14	92.64	-92.64	3893.74
902.60	102.00	312.30	821.52	-32.47	93.55	-93.55	4933.79
903.60	79.50	267.10	821.50	-32.79	94.47	-94.47	5022.26
904.60	80.00	269.00	821.68	-32.76	95.45	-95.45	193.54
905.60	80.10	268.80	821.85	-32.74	96.43	-96.43	22.09
906.60	77.20	261.80	822.05	-32.66	97.41	-97.41	744.97
907.60	85.70	282.60	822.20	-32.70	98.39	-98.39	2223.49
908.60	80.20	269.50	822.32	-32.81	99.38	-99.38	1411.13
909.60	79.60	268.10	822.50	-32.79	100.36	-100.36	150.32
910.60	77.70	262.90	822.70	-32.71	101.34	-101.34	544.05
911.60	83.60	278.50	822.86	-32.72	102.32	-102.32	1647.67
912.60	105.60	316.40	822.78	-33.17	103.19	-103.19	4350.59
913.60	97.50	306.70	822.58	-33.81	103.92	-103.92	1248.00
914.60	81.10	272.20	822.59	-34.14	104.84	-104.84	3808.99
915.60	99.50	309.90	822.58	-34.49	105.76	-105.76	4180.29
916.60	92.90	297.90	822.47	-35.04	106.58	-106.58	1362.76
917.60	81.00	272.20	822.53	-35.30	107.54	-107.54	2824.54
918.60	102.40	313.20	822.50	-35.68	108.43	-108.43	4601.76
919.60	98.60	308.60	822.32	-36.32	109.18	-109.18	590.67
920.60	78.40	265.90	822.34	-36.61	110.10	-110.10	4702.01
921.60	81.80	274.20	822.52	-36.61	111.09	-111.09	885.37
922.60	103.80	316.40	822.46	-37.02	111.97	-111.97	4730.90
923.60	72.50	251.10	822.50	-37.25	112.87	-112.87	7162.14
924.60	95.50	303.60	822.61	-37.38	113.82	-113.82	5669.53
925.60	81.20	272.70	822.64	-37.69	114.75	-114.75	3396.31
926.60	93.20	300.60	822.69	-37.97	115.70	-115.70	3029.26
927.60	79.60	268.50	822.76	-38.22	116.65	-116.65	3473.17
928.60	86.40	285.50	822.88	-38.34	117.63	-117.63	1818.15
929.60	97.40	308.90	822.84	-38.80	118.51	-118.51	2581.20
930.60	75.90	258.70	822.91	-39.03	119.44	-119.44	5424.81
931.60	78.10	264.40	823.13	-38.89	120.41	-120.41	597.33
932.60	99.60	312.00	823.15	-39.19	121.32	-121.32	5196.21
933.60	79.70	269.00	823.16	-39.53	122.24	-122.24	4718.19
934.60	109.90	323.70	823.07	-39.94	123.09	-123.09	6172.29

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JUN 29 2006
KCC WICHITA

Measured Depth (ft)	Incl. Angle Deg	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
935.60	77.10	262.80	823.00	-40.30	123.96	-123.96	6829.89
936.60	101.60	314.80	823.02	-40.61	124.86	-124.86	5711.36
937.60	79.40	268.60	823.01	-40.97	125.76	-125.76	5099.06
938.60	97.00	307.20	823.04	-41.27	126.69	-126.69	4226.52
939.60	98.20	307.40	822.91	-41.87	127.48	-127.48	121.63
940.60	109.80	321.30	822.66	-42.55	128.17	-128.17	1776.71
941.60	72.60	251.30	822.64	-42.80	129.06	-129.06	7812.49
942.60	75.20	257.60	822.92	-42.54	129.99	-129.99	658.69
943.60	105.20	318.80	822.91	-42.84	130.88	-130.88	6751.13
944.60	74.50	257.40	822.92	-43.13	131.78	-131.78	6797.09
945.60	95.50	305.50	823.01	-43.33	132.72	-132.72	5205.05
946.60	91.80	298.30	822.94	-43.86	133.57	-133.57	808.09
947.60	105.40	318.20	822.79	-44.46	134.34	-134.34	2387.63
948.60	90.40	293.40	822.66	-45.03	135.14	-135.14	2871.54
949.60	73.40	253.40	822.80	-45.10	136.10	-136.10	4293.68
950.60	88.50	291.80	822.96	-45.15	137.06	-137.06	4068.96
951.60	87.80	289.60	823.00	-45.50	138.00	-138.00	230.76
952.60	96.50	305.50	822.96	-45.96	138.88	-138.88	1810.12
953.60	73.10	253.00	823.06	-46.12	139.82	-139.82	5691.94
954.60	83.00	278.20	823.27	-46.05	140.79	-140.79	2652.68
955.60	79.50	269.40	823.42	-46.12	141.77	-141.77	937.39
956.60	100.20	313.30	823.42	-46.47	142.68	-142.68	4831.64
957.60	79.50	269.00	823.42	-46.82	143.58	-143.58	4867.61
958.60	76.90	262.70	823.63	-46.75	144.56	-144.56	669.19
959.60	102.80	314.80	823.63	-47.06	145.46	-145.46	5777.70
960.60	87.50	289.60	823.54	-47.58	146.30	-146.30	2932.71
961.60	85.80	284.30	823.60	-47.87	147.25	-147.25	555.72
962.60	94.80	302.90	823.59	-48.27	148.16	-148.16	2064.55
963.60	101.70	315.20	823.45	-48.89	148.93	-148.93	1398.51
964.60	75.20	259.50	823.48	-49.18	149.84	-149.84	6120.29
965.60	77.30	264.00	823.72	-49.04	150.80	-150.80	484.90
966.60	85.90	286.10	823.86	-49.13	151.78	-151.78	2347.04
967.60	93.90	301.80	823.87	-49.53	152.69	-152.69	1760.93
968.60	92.60	300.40	823.81	-50.05	153.54	-153.54	190.88
969.60	84.50	282.70	823.83	-50.41	154.47	-154.47	1944.67
970.60	72.80	252.90	824.04	-50.38	155.44	-155.44	3140.74
971.60	79.40	270.20	824.28	-50.24	156.39	-156.39	1803.01
972.60	94.70	306.20	824.33	-50.55	157.32	-157.32	3897.10
973.60	80.40	272.70	824.37	-50.88	158.25	-158.25	3631.45
974.60	69.40	246.50	824.64	-50.71	159.19	-159.19	2752.59
975.60	71.10	250.80	824.98	-50.37	160.06	-160.06	438.93
976.60	87.70	290.40	825.17	-50.39	161.02	-161.02	4215.06
977.60	100.00	312.40	825.10	-50.90	161.87	-161.87	2512.37
978.60	102.10	314.00	824.91	-51.57	162.58	-162.58	262.21
979.60	79.30	270.30	824.90	-51.94	163.48	-163.48	4902.76
980.60	80.70	273.90	825.07	-51.98	164.47	-164.47	381.16
981.60	95.30	305.10	825.10	-52.31	165.39	-165.39	3435.22

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JUN 29 2006
KCC WICHITA

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982.60	97.90	310.20	824.99	-52.91	166.18	-166.18	569.40
983.60	99.60	311.50	824.84	-53.56	166.93	-166.93	213.09
984.60	103.60	316.90	824.64	-54.24	167.63	-167.63	663.08
985.60	101.00	312.50	824.42	-54.93	168.32	-168.32	502.37
986.60	97.30	308.90	824.26	-55.57	169.07	-169.07	513.01
987.60	97.30	308.10	824.14	-56.19	169.85	-169.85	79.35
988.60	100.70	313.10	823.98	-56.83	170.60	-170.60	599.50
989.60	79.30	270.70	823.98	-57.19	171.50	-171.50	4727.13
990.60	96.70	308.60	824.02	-57.52	172.42	-172.42	4154.74
991.60	76.40	263.70	824.08	-57.80	173.35	-173.35	4897.85
992.60	74.50	259.00	824.33	-57.65	174.30	-174.30	492.98
993.60	75.60	262.10	824.59	-57.49	175.26	-175.26	319.06
994.60	79.40	271.40	824.81	-57.44	176.23	-176.23	984.05
995.60	82.70	280.30	824.96	-57.54	177.21	-177.21	938.92
996.60	88.60	293.80	825.04	-57.83	178.16	-178.16	1469.16
997.60	91.70	301.30	825.04	-58.29	179.05	-179.05	811.45
998.60	87.20	291.40	825.04	-58.74	179.94	-179.94	1087.20
999.60	77.10	265.80	825.18	-58.89	180.91	-180.91	2726.12
1000.60	78.40	269.50	825.40	-58.85	181.89	-181.89	384.22
1001.60	74.50	258.20	825.63	-58.74	182.85	-182.85	1165.39
1002.60	95.70	306.60	825.72	-58.96	183.79	-183.79	5240.51
1003.60	80.00	273.50	825.76	-59.29	184.71	-184.71	3651.84
1004.60	100.40	314.20	825.76	-59.69	185.60	-185.60	4533.15
1005.60	96.30	308.50	825.61	-60.34	186.35	-186.35	697.14
1006.60	79.70	272.90	825.65	-60.69	187.26	-187.26	3914.55
1007.60	82.50	280.60	825.80	-60.81	188.24	-188.24	810.53
1008.60	96.60	308.00	825.81	-61.21	189.14	-189.14	3075.25
1009.60	94.50	304.90	825.71	-61.80	189.94	-189.94	373.22
1010.60	85.90	289.10	825.71	-62.26	190.83	-190.83	1797.57
1011.60	80.70	275.70	825.83	-62.47	191.80	-191.80	1428.35
1012.60	81.70	278.10	825.98	-62.59	192.78	-192.78	257.39
1013.60	83.00	281.40	826.11	-62.76	193.76	-193.76	351.94
1014.60	101.00	315.20	826.08	-63.22	194.62	-194.62	3815.12
1015.60	83.50	283.00	826.04	-63.70	195.48	-195.48	3651.45
1016.60	73.70	258.40	826.24	-63.71	196.45	-196.45	2599.24
1017.60	103.20	316.60	826.27	-64.00	197.35	-197.35	6463.89
1018.60	94.50	304.90	826.11	-64.64	198.10	-198.10	1445.87
1019.60	97.10	308.60	826.01	-65.24	198.90	-198.90	450.64
1020.60	79.50	273.00	826.04	-65.59	199.81	-199.81	3957.15
1021.60	74.50	260.30	826.27	-65.53	200.78	-200.78	1334.10
1022.60	81.20	277.40	826.48	-65.51	201.76	-201.76	1799.70
1023.60	78.60	270.70	826.65	-65.58	202.74	-202.74	708.94
1024.60	109.40	323.00	826.58	-66.00	203.59	-203.59	6001.51
1025.60	76.30	265.00	826.53	-66.38	204.46	-204.46	6598.71
1026.60	86.20	289.80	826.68	-66.51	205.43	-205.43	2640.05
1027.60	79.20	272.70	826.81	-66.70	206.40	-206.40	1833.79
1028.60	84.20	285.10	826.95	-66.86	207.37	-207.37	1324.54

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Measured Depth (ft)	Incl. Angle Deg	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
1029.60	103.70	318.80	826.88	-67.37	208.20	-208.20	3872.00
1030.60	101.20	316.00	826.67	-68.09	208.86	-208.86	370.46
1031.60	74.90	260.60	826.70	-68.39	209.77	-209.77	6084.34
1032.60	105.10	320.90	826.70	-68.73	210.65	-210.65	6679.81
1033.60	101.00	315.60	826.48	-69.45	211.30	-211.30	659.19
1034.60	84.70	287.30	826.43	-69.97	212.14	-212.14	3254.38
1035.60	65.80	240.00	826.70	-69.88	213.07	-213.07	4917.25
1036.60	94.80	306.10	826.88	-69.96	213.98	-213.98	7049.19
1037.60	102.40	316.40	826.73	-70.61	214.73	-214.73	1270.07
1038.60	102.50	316.60	826.52	-71.31	215.40	-215.40	21.94
1039.60	93.70	306.60	826.38	-71.97	216.14	-216.14	1323.80
1040.60	105.40	319.70	826.21	-72.64	216.86	-216.86	1741.05
1041.60	85.60	289.30	826.11	-73.19	217.67	-217.67	3602.88
1042.60	98.50	312.80	826.08	-73.70	218.51	-218.51	2675.06
1043.60	80.70	277.30	826.08	-74.12	219.40	-219.40	3958.29
1044.60	99.70	312.80	826.08	-74.53	220.29	-220.29	4011.97
1045.60	73.40	258.50	826.14	-74.79	221.21	-221.21	5979.53
1046.60	103.60	317.50	826.17	-75.09	222.10	-222.10	6563.45
1047.60	103.90	317.20	825.94	-75.80	222.76	-222.76	41.82
1048.60	73.70	260.70	825.96	-76.12	223.66	-223.66	6346.05
1049.60	101.00	314.40	826.01	-76.41	224.57	-224.57	5972.02
1050.60	84.40	286.60	825.96	-76.91	225.42	-225.42	3226.75
1051.60	103.20	319.10	825.89	-77.44	226.24	-226.24	3735.36
1052.60	71.00	253.30	825.95	-77.71	227.14	-227.14	7236.18
1053.60	102.20	315.40	826.01	-77.95	228.04	-228.04	6867.59
1054.60	104.00	319.60	825.79	-78.66	228.70	-228.70	446.90
1055.60	78.00	271.10	825.77	-79.08	229.57	-229.57	5464.86
1056.60	83.70	285.50	825.93	-79.22	230.54	-230.54	1531.01
1057.60	112.00	323.80	825.79	-79.76	231.34	-231.34	4698.96
1058.60	104.00	319.30	825.48	-80.50	231.93	-231.93	907.06
1059.60	80.20	277.00	825.44	-80.95	232.79	-232.79	4824.00
1060.60	95.30	307.70	825.48	-81.33	233.70	-233.70	3411.02
1061.60	94.50	306.20	825.39	-81.93	234.50	-234.50	169.52
1062.60	76.00	265.60	825.48	-82.20	235.43	-235.43	4431.86
1063.60	78.00	271.80	825.71	-82.18	236.40	-236.40	636.31
1064.60	77.60	270.60	825.92	-82.20	237.38	-237.38	123.92
1065.60	95.80	310.00	825.98	-82.54	238.29	-238.29	4318.54
1066.60	81.60	281.50	826.00	-82.97	239.18	-239.18	3176.92
1067.60	98.10	311.40	826.00	-83.41	240.06	-240.06	3405.93
1068.60	78.00	272.10	826.04	-83.77	240.97	-240.97	4393.86
1069.60	93.80	306.70	826.11	-84.10	241.89	-241.89	3785.19
1070.60	92.60	303.70	826.06	-84.67	242.71	-242.71	322.67
1071.60	97.30	311.30	825.97	-85.28	243.50	-243.50	890.99
1072.60	102.00	314.60	825.80	-85.95	244.22	-244.22	571.55
1073.60	98.20	313.70	825.63	-86.64	244.92	-244.92	390.19
1074.60	100.00	315.10	825.47	-87.33	245.63	-245.63	226.95
1075.60	100.80	315.10	825.29	-88.02	246.32	-246.32	80.00

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Measured Depth (ft)	Incl. Angle Deg	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
1076.60	82.60	283.90	825.26	-88.51	247.18	-247.18	3599.37
1077.60	79.90	277.60	825.41	-88.69	248.15	-248.15	678.62
1078.60	76.90	270.20	825.61	-88.76	249.13	-249.13	784.41
1079.60	105.90	321.00	825.59	-89.17	249.99	-249.99	5799.88
1080.60	103.80	320.70	825.33	-89.92	250.60	-250.60	211.99
1081.60	92.70	304.10	825.18	-90.58	251.33	-251.33	1980.30
1082.60	102.80	318.80	825.05	-91.23	252.07	-252.07	1770.79
1083.60	100.50	315.80	824.85	-91.95	252.74	-252.74	373.12
1084.60	72.20	258.80	824.92	-92.24	253.64	-253.64	6298.81
1085.60	84.90	289.90	825.12	-92.32	254.60	-254.60	3294.17
1086.60	101.50	317.00	825.06	-92.86	255.42	-255.42	3166.14
1087.60	75.00	265.20	825.09	-93.21	256.32	-256.32	5774.12
1088.60	83.30	286.80	825.29	-93.32	257.29	-257.29	2275.63
1089.60	85.70	291.10	825.38	-93.64	258.23	-258.23	490.69
1090.60	78.00	273.60	825.52	-93.85	259.19	-259.19	1894.35
1091.60	101.40	317.30	825.53	-94.27	260.06	-260.06	4929.82
1092.60	81.80	282.80	825.50	-94.76	260.91	-260.91	3951.88
1093.60	93.90	307.50	825.54	-95.18	261.81	-261.81	2744.71
1094.60	84.80	289.90	825.55	-95.66	262.68	-262.68	1979.59
1095.60	82.70	285.20	825.66	-95.96	263.63	-263.63	512.21
1096.60	81.80	283.30	825.79	-96.20	264.59	-264.59	208.67
1097.60	98.50	314.00	825.79	-96.67	265.45	-265.45	3485.20
1098.60	96.50	311.10	825.66	-97.34	266.18	-266.18	350.23
1099.60	75.20	266.20	825.74	-97.66	267.10	-267.10	4934.37
1100.60	82.70	285.50	825.93	-97.76	268.07	-268.07	2035.58
1101.60	86.10	293.20	826.03	-98.09	269.01	-269.01	838.25
1102.60	79.80	278.60	826.15	-98.36	269.96	-269.96	1579.24
1103.60	99.60	315.10	826.16	-98.80	270.83	-270.83	4136.27
1104.60	94.80	308.40	826.03	-99.46	271.57	-271.57	819.74
1105.60	92.50	306.30	825.97	-100.07	272.36	-272.36	311.15
1106.60	100.50	316.80	825.85	-100.73	273.10	-273.10	1313.96
1107.60	93.70	307.40	825.73	-101.39	273.84	-273.84	1153.86
1108.60	79.40	277.50	825.79	-101.77	274.75	-274.75	3302.25
1109.60	83.10	286.70	825.94	-101.97	275.71	-275.71	981.51
1110.60	80.40	280.30	826.09	-102.21	276.68	-276.68	688.46
1111.60	83.10	287.10	826.23	-102.44	277.64	-277.64	725.04
1112.00	86.30	294.00	826.27	-102.58	278.01	-278.01	1894.58

All data are in feet unless otherwise stated. Directions and coordinates are relative to True North. Vertical depths are relative to WELL. Northings and Eastings are relative to Site.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from User and calculated along an Azimuth of 270.000° (True).

Coordinate System is North American Datum 1983 US State Plane 1983, Kansas Southern Zone. Central meridian is -98.500°.

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Grid Convergence at Surface is -2.621° .

Based upon Minimum Curvature type calculations, at a Measured Depth of 1112.00ft., the Bottom Hole Displacement is 742.47ft., in the Direction of 270.000° (True).

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