

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1069666

Form ACO-1 June 2009 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 North / South Line of Section
City: State: Zip:+	Feet from Cast / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	Amount of Surface Pipe Set and Cemented at:
If Workover/Re-entry: Old Well Info as follows:	
Operator:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) Chloride content: ppm provide content: ppm Fluid volume: bbls Dewatering method used: Location of fluid disposal if hauled offsite: Operator Name: Lease Name: Quarter Sec TwpS. R East County: Permit #:
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date	

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
Letter of Confidentiality Received
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II III Approved by: Date:

	Side Two	1069666
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East West	County:	

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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional She	eets)	Yes No	L		n (Top), Depth an	d Datum Top	Datum
Samples Sent to Geolog	ical Survey	Yes No				iop	Datam
Cores Taken Electric Log Run Electric Log Submitted E (If no, Submit Copy)	Electronically	<pre>Yes No</pre> NoNoVes NoNo					
List All E. Logs Run:							
		CASING		ew Used			
		Report all strings set	-conductor, surface, inte	ermediate, producti	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 / SQUEEZE RECORD

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated					e			ement Squeeze Record I of Material Used)	Depth
TUBING RECORD:	Siz	:e:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed P	Producti	on, SWD or ENHF	₹.	Producing N	1ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF G	BAS:			METHOD	OF COMPLE	TION:		PRODUCTION INT	ERVAL:
Vented Sold		Jsed on Lease		Open Hole	Perf.	Dually (Submit A	Comp. AC <i>O-5)</i>	Commingled (Submit ACO-4)		
(If vented, Subr	nit ACO	-18.)		Other (Specify)						

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Woolsey Operating Company, LLC
Well Name	SUMMERS 3
Doc ID	1069666

Tops

Name	Тор	Datum
CHASE	1839	-434
ONAGA	2699	-1294
ELGIN SD	3534	-2129
DOUGLAS	3731	-2326
HERTA LS	4416	-3011
MISSISSIPPIAN	4618	-3213
VIOLA	4960	-3555
SIMPSON	5082	-3677

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 Ward Loyd, Commissioner Thomas E. Wright, Commissioner Sam Brownback, Governor

December 09, 2011

DEAN PATTISSON Woolsey Operating Company, LLC 125 N MARKET STE 1000 WICHITA, KS 67202-1729

Re: ACO1 API 15-007-23741-00-00 SUMMERS 3 SW/4 Sec.17-34S-11W Barber 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, DEAN PATTISSON

ALLIED CEMENTING CO., LLC. 040246

	ELL, KAN	5765 0700	55			VICE POINT:	
C. Is .	SEC.	TWP.	RANGE	CALLED OUT	011001515		to Louiso Ks
DATE 8+12-2011	17	343	116	Z:00pm	ON LOCATION	JOB START	JOB FINISH S:30pm
EASESUMMers	WELL# J	?	LOCATION SCOT	- Canyon 122 2		COUNTY Basher	STATE
LD OR NEW (Ci	rcle one)		1 Sousn 110	Wast & hourn	CYS'A	54shor	FS
ONTRACTOR	42#3		Jert			·	
YPE OF JOB 5	ov for,			OWNER WOO	olsey Ofer	19 dins	
OLE SIZE 12	13/4	T.D.	225	CEMENT			
ASING SIZE 1	03/4		TH 223	AMOUNT ORD	ERED 24	O Sp Cler	5A + 3920
OBING SIZE		<u>DEI</u>		2ºloGei			en y u rel
OOL		DEP DEP					
RES. MAX			IMUM	COMMON	240 V	@ 16.25	2000
IEAS. LINE	000	SHC	DE JOINT	POZMIX	~ ··· ··	@2 <u>6.23</u> @	5700.0
EMENT LEFT IN ERFS.	ICSG.	201		GEL	5 SK	@21.25	106.25
ISPLACEMENT	20 hh	Isal	Prosh Neva	_ CHLORIDE	9 SK	_@ <u>58:2</u> 0_	523-80
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UMPTRUCK	CEMENTE	R Dar	in fr	······································			
414-302	HELPER	Dove F	7	_			
ULK TRUCK	•					@	
ULK TRUCK	DRIVER (-911 P.				_@	
	DRIVER					@ @	
	Div			- HANDLING			571.5
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Pipona have	nelv	IARKS:	-		- 1	TOTAL	5520.
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Cemens did C	in coler	T D		DEPTH OF JOB	2231		
VV El Li		ЦĽ		– PUMP TRUCK (CHARGE	1125.00	
Regulatory C	orrespon	idence		– EXTRA FOOTA	GE	@	
Trig Comp		kovers		_ MILEAGE		@ 7.00	210.0
ests / Meters	Ope	rations		- MANIFOLD	Se LUSIUE	@	
×	• -			Light Uch		_@ @ 4.oc	120.00
HARGE TO: 1	oolsej	<u> Op</u>	ersting	-		_ <u>~</u>	120.00
TREET				_		TOTAL	1455.0
			ZIP	-			
	STA	TE					
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	STA	.TE	<i>L</i> IP	- PI	UG & FLOA		
ITY			<i>L</i> IF	PI	LUG & FLOA	@	
ITY	ing Co., L	LC.		PI PI	UG & FLOA	@ @ @	
ITY o Allied Cement ou are hereby re	ing Co., L quested to	LC. rent cem	cating equipment		LUG & FLOA	@ @ @	
TY To Allied Cement You are hereby re nd furnish cemer ontractor to do w	ing Co., L quested to nter and he vork as is l	LC. rent cerr elper(s) to isted. Th	tenting equipment assist owner or above work was	PI	LUG & FLOA	@ @ @	
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ALLIE CEMENTING CO., LLC. 037786 Federal Tax I.D.# 20-5975804 SERVICE POINT: Medicine lodge 15 REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665 RANGE 11 w \$2B/ JOB START JOB FINISH 7 sec. 17 CALLED OUT TWP. 345 ON LOCATION DATE 08-20-11 COUNTY

				Barber	KS
	linto	Scott Canyon Rd, 2			
	······		lan		
CONTRACTOR H-2#3		OWNER WO	olsey		
TYPE OF JOB Production Casing	140'	(TEN AFENITE			_
HOLE SIZE 778 T.D. 5	<u>110</u>	CEMENT	75-11	LA.da.s	Iol Ad
	5065	AMOUNT ORDERED	<u>125× k</u>	<u>, 0, 70; 1</u>	Togel F
TUBING SIZE DEPTH		150 sx class H+1	07. Salt +	- 10% gyp	+6" Kolsen
DRILL PIPE DEPTH		, 8% FL-160 + 1/0	1 #Flose	al & 123.	Is Clap RO
TOOL DEPTH		,	1	• •	721,21
PRES. MAX / 500# MINIM	UM <u> </u>	COMMON Class	<u>+ 45</u>	@ <u>16.25</u>	121.
MEAS. LINE SHOE J	0INT 3 9	POZMIX	300	@ X.50	255.00
CEMENT LEFT IN CSG. 39'		GEL	350	@ 21.21	63.71
PERFS.		CHLORIDE		@	<u></u>
DISPLACEMENT / 20 1361s 2%K	Cl Deter	ASC		@	
		class H	1500	@ 19.25	2887.50
EQUIPMENT		<u>Aug Saal</u>		@ 34:20	478.00
Λ		gypSeal Salt	1700	@ 23.95	407,15
PUMPTRUCK CEMENTER D. Felg	۰ ۵		Q ADd	@_ <u>25</u> @89	801.00
#414-302 HELPER R. G: 1104		Kolseal	900#	C	1926.40
BULK TRUCK		<u>FL-160</u>	lld#	@ 17.20	19 60.90
#421-252 DRIVER E. Piper-		Flosen	374	@ 2.70	375-00
BULK TRUCK		Clapito	1 Lgals	@31.25	_3/5
				@	121.00
Drig./Gen	TO ANOINOACIO			@ <u>2</u> ?,	
Tests / Me	The second	MILEAGE <u>15/27</u>	6/.11		455.40
REMARKS:		Z	-	TOTAL	9102.15
Pipe on BHM, Break Circ., Plug Ro	the wild San	•			
				7	
60:40 cement, Pump 505x Seaven		1X	SERVIC	Ľ	
505x tail Coment, Stop Pump, U			.16		
ines, Release Plug, Start Dis					OLGE ME
Vater, See Steady increase in PS	I, Slow Kate	, PUMP TRUCK CHAP			2695.00
Bump Plug at 120 B61s total Disp.					
all 6. 111	, Release PSZ	/		@	1.11.1405 (J. 4)
Floats Did Hold	, Refease PSI	EXTRA FOOTAGE MILEAGE		@	210.00
Floats Did Hold	, Referre PSI	/	30 Intal		210.00
Floats Did Hold	, Referse PSZ	MILEAGE	30 ental	@ 7	210.00
Floats Did Hold	, Release PSZ	MILEAGE	30 ental 30	@	210.00 200.00 1.2000
Floats Did Hold	, Referre PST	MILEAGE	30 ental 30	@ @ @4	210.00
Floats Did Hold	, Referre PST	MILEAGE	30 ental 30	@ <mark>7</mark> @ @	$\frac{200^{\circ}}{120^{\circ}}$
CHARGE TO: Woolsey Oper.	, Referse PST	MILEAGE	30 ental 30	@ <mark>7</mark> @ @	210.00 200.00 1 2000 3225-20
Floats Did Hold CHARGE TO: <u>Woolsey Oper</u> . STREET		MILEAGE	30 ental 30	@ <mark>7</mark> @ @	$\frac{200^{\circ}}{120^{\circ}}$
CHARGE TO: <u>Woolsey Oper</u> . STREET	, <i>Referse PS</i>	MILEAGE MANIFOLD Head R Light Vehicle	30 ental 30	@ 7 @ 4 @ 4 TOTAL	200.00 1 2000 3225-20
CHARGE TO: Woolsey Oper.		MILEAGE MANIFOLD Head R ghtVehicle	30 ental 30	@ <mark>7</mark> @ @	200.00 1 2000 3225-20
CHARGE TO: Woolsey Oper.		MILEAGE MANIFOLD Head R ghtVehicle	30 ental 30	@ 7 @ 4 @ 4 TOTAL	200.00 1 2000 3225-20
CHARGE TO: <u>Woolsey Oper</u> . STREET		MILEAGE MANIFOLD Head R ghtVehicle	30 ental 30	@ 7 @ 4 @ 4 TOTAL	200.00 1 2000 3225-20
CHARGE TO: Woolsey Oper.		MILEAGE MANIFOLD Head R Light Vehicle PLUG <u>1-AFU Float S</u>	30 ental 30	@ @ @ TOTAL EQUIPMEN @	200.00 1 2000 3225-41
CHARGE TO: <u>Woolsey Oper</u> . STREET CITY STATE		MILEAGE MANIFOLD Head R Light Vehicle PLUG <u>1-AFU Float S</u>	30 ental 30 & FLOAT 1 Xoe	@ @ @ TOTAL EQUIPMEN @	200.00 1 2000 3225-4
CHARGE TO: <u>Woolsey Oper</u> . STREETSTATE To Allied Cementing Co., LLC.	ZIP	MILEAGE MANIFOLD Head R Light Vehicle PLUG <u>1-AFU Float S</u>	30 Ental 30 & FLOAT 1 Koe ug ASSY.	@ @ @ TOTAL EQUIPMEN @	200.00 1 2000 3225-41
CHARGE TO: <u>Woolsey Oper</u> . STREET CITY STATE To Allied Cementing Co., LLC. You are hereby requested to rent cement	ZIP	MILEAGE MANIFOLD Head R Light Vehicle PLUG <u>1-AFU Float S</u>	30 ental 30 & FLOAT 1 Koe up ASSY.	@ 7 @ 4 @ 4 @ TOTAL EQUIPMEN @ 26	200.00 1 2000 3225-4
CHARGE TO: <u>Woolsey</u> Oper. STREET CITY STATE To Allied Cementing Co., LLC. You are hereby requested to rent cement and furnish cementer and helper(s) to as	ZIP	MILEAGE MANIFOLD Head R Light Vehicle PLUG <u>1-AFU Float S</u>	30 ental 30 & FLOAT 1 Koe up ASSY.	@ @ TOTAL EQUIPMEN @ @ @	200.00 1 2000 3225-4
CHARGE TO: <u>Woolsey Oper</u> . STREET CITY STATE To Allied Cementing Co., LLC. You are hereby requested to rent cement and furnish cementer and helper(s) to as contractor to do work as is listed. The a	ZIP ing equipment sist owner or bove work was	MILEAGE MANIFOLD Head R Light Vehicle PLUG <u>1-AFU Float S</u>	30 ental 30 & FLOAT 1 Koe up ASSY.	@ 7 @ 4 @ 4 @ TOTAL EQUIPMEN @	$\frac{200^{10}}{200^{10}}$ $\frac{200^{10}}{120^{10}}$ $\frac{3225^{100}}{277^{100}}$ $\frac{349^{100}}{277^{100}}$ $\frac{380^{100}}{1520^{10}}$
CHARGE TO: <u>Woolsey</u> Oper. STREET CITY STATE To Allied Cementing Co., LLC. You are hereby requested to rent cement and furnish cementer and helper(s) to as	ZIP ing equipment sist owner or bove work was	MILEAGE MANIFOLD Head R Light Vehicle PLUG <u>1-AFU Float S</u>	30 ental 30 & FLOAT 1 Koe up ASSY.	@ 7 @ 4 @ 4 @ TOTAL EQUIPMEN @	200.00 1 2000 3225-4
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CHARGE TO: <u>Uoolsey Oper</u> . STREET	ZIP ing equipment sist owner or bove work was wner agent or he "GENERAL	MILEAGE MANIFOLD Head R Light Vehicle PLUG <u>1-AFU Float S</u>	30 ental 30 & FLOAT I have up ASSY.	@ 7 @ 4 @ 7 @ 7 @ 7 @ 7 @ 7 @ 7 @ 7 @ 7 @ 7 0 TOTAL	$ \frac{200^{10}}{200^{10}} $ $ \frac{200^{10}}{200^{10}} $ $ \frac{3225^{20}}{277^{20}} $ $ \frac{349^{200}}{277^{200}} $ $ \frac{880^{00}}{1520^{00}} $ $ \frac{3026^{20}}{200} $
CHARGE TO: <u>Woolsey</u> Oper. STREET	ZIP ing equipment sist owner or bove work was wner agent or he "GENERAL	MILEAGE MANIFOLD Head R Light Vehicle PLUG <u>I-AFU Float S</u> <u>I-Catch down fl</u> <u>II-turbo lizers</u> 20-Recip. Scrat SALES TAX (If Any)	30 ental 30 & FLOAT I have up ASSY.	@ 7 @ 4 @ 7 @ 7 @ 7 @ 7 @ 7 @ 7 @ 7 @ 7 @ 7 0 TOTAL	$ \frac{200^{10}}{200^{10}} $ $ \frac{200^{10}}{200^{10}} $ $ \frac{3225^{20}}{277^{20}} $ $ \frac{349^{200}}{277^{200}} $ $ \frac{880^{00}}{1520^{00}} $ $ \frac{3026^{20}}{200} $
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CHARGE TO: <u>Used sey Oper</u> . STREET	ZIP ing equipment sist owner or bove work was wner agent or he "GENERAL the reverse side.	MILEAGE MANIFOLD Head R Light Vehicle PLUG /-AFU Float S /- Catch down fl /l-turbo/izers 20-Recip. Screet SALES TAX (If Any) TOTAL CHARGES_	30 ental 30 & FLOAT I have up ASSY.	@ 7 @ 4 @ 4 @ TOTAL EQUIPMEN @ 26 @ 76 TOTAL 5 353, 12	$\frac{200^{10}}{200^{10}}$ $\frac{200^{10}}{120^{10}}$ $\frac{3225^{10}}{277^{100}}$ $\frac{349^{100}}{277^{100}}$ $\frac{880^{100}}{1520^{10}}$ $\frac{3026^{100}}{275}$
CHARGE TO: <u>Woolsey Oper</u> . STREET	ZIP ing equipment sist owner or bove work was wner agent or he "GENERAL the reverse side.	MILEAGE MANIFOLD Head R Light Vehicle PLUG <u>I-AFU Float S</u> <u>I-Catch down fl</u> <u>II-turbolizeks</u> 20-Recip Screat SALES TAX (If Any) TOTAL CHARGES _ DISCOUNT	30 ental 30 & FLOAT I have up ASSY. chees	@ 7 @ 4 @ 4 @ TOTAL EQUIPMEN @ 26 @ 76 TOTAL 5 353, 12	$\frac{200^{10}}{200^{10}}$ $\frac{200^{10}}{120^{10}}$ $\frac{3225^{10}}{277^{10}}$ $\frac{349^{100}}{277^{100}}$ $\frac{880^{100}}{1520^{10}}$ $\frac{3026^{100}}{2}$ $\frac{3026^{100}}{2}$ $\frac{1520^{100}}{2}$

SIGNATURE Mile The



Scale 1:240 (5"=100') Imperial

Well Name: SUMMERS #4 Location: Section 17 - Township 34 South - Range 11 West Licence Number: 15-007-23,751.0000 Region: Barber County, KS. Spud Date: 23 August 2011 Drilling Completed: 30 August 2011 Surface Coordinates: 1.160' FSL & 330' FWL (NW SW SW) **Bottom Hole**

Coordinates: Ground Elevation (ft): 1,409' Logged Interval (ft): 4,400'

K.B. Elevation (ft): 1,418' To: 5,220' Total Depth (ft): 5,220' Formation: Kansas City Group -----> Wilcox Sandstone

Type of Drilling Fluid: Chemical; Low Solids (non-dispersed)

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: WOOLSEY OPERATING COMPANY, LLC Address: 125 North Water, Suite 1000 Wichita, Kansas 67202 (316) 267-4379

Geologist: Marc Summervill

GEOLOGIST

Name: Curtis Covey **Company: COVEY - The Well Watchers** Address: 6548 Bedford Circle Derby, Kansas 67037 Office: (316) 776 - 0367

Cell: (316) 258-9976

FORMATION TOPS

Formation

Stark SH

Hushpucknev SH

B / KC

Pawnee LS

Cherokee Gp

Mississippian Chert

Kinderhook Sh

Woodford Sh

Viola Wilcox SS

Rotary Sample Depth (Datum)

4,395' (-2,977')	 4,394' (-2,976')
4,469' (-3,051')	
, , ,	 , , , ,
, , ,	
4,870' (-3,452')	 4,869' (-3,451')
4,950' (-3,532')	 4,950' (-3,532')
, , , ,	

RTD: 5,220' LTD: 5,222' ATD: 5,222' E-log is 0' - 2' low to rotary sample depth.

Loggers:

Superior Well Services Hays, Kansas

E-log Depth (Datum)

2011 DAIL	Y DRILLING STATUS - AUGUST	2011
14-3/4" Hole 23 August Spud @ 3pm. Drill to 225'. Run 10-3/4" casing. Set casing @ 223'. Cemented w/ 240 sx Class A (2% Gel + 3% CC). [Allied] Cement did circulate. Plug down @ 7pm. WOC.	7-7/8" Hole 24 Aug 7am @ 445'. 25 7am @ 2,041'. 26 7am @ 2,860'. 27 Displaced Mud @ 3,400'. 7am @ 3,650'. 28 7am @ 4,180'.	7-7/8" Hole 29 Aug 7am @ 4,630'. 30 7am @ 4,991'. RTD (5,220') @ 9:20pm. 31 Logging truck broke down (fan belt) enroute. Replacement truck arrived. E-Log. [Superior Well Services]
DEPTH / TVD INCLINATION 225' / 1.25 (Surafce Casi 1,227' / 0.75 1,761' / 0.50 2,262' / 1.00 2,763' / 0.50 3,264' / 0.50 3,640' / 1.00 3,798' / 0.50 4,049' / 0.50 4,707' / 0.50 5,220' / 1.50 (RTD)	HOLE DEVIATION (225' - 5,220') AZIMUTH NORTH SOUTH ng)	EAST WEST DOGLEG deg/100'
	CONTRACTOR	

H2 Drilling --- Rig #3

10,500 E. Berkeley Square Parkway, Suite 1000 Wichita, Kansas 67230 Office: (316) 636-2090

Rig #3 - (620) 388-1903

Toolpusher: James Schultz - (620) 290-5912

WOB 35M (39.9M corrected) @ 80 RPM while drilling main hole.

6" x 14" @ 60 SPM.

1,200 PSI @ Standpipe.

Pump: EMSCO D-375

Drill Collars: 6.25" x 2.25" --- 559'. (91#/ft) Dry Collar Weight: 50,864# (@ 9.2 ppg / Buoyancy Factor 0.860) Bouyancy Collar Weight: 43,747# Design Factor: 15%, therefore: available WOB is 37,185# Drill Pipe: 4-1/2"XH. (16.6#/ft - new)

BIT RECORD											
DATE	SIZE	TYPE	JET SIZE	DEPTH IN / OUT	CUM. FT.	HOURS	ROP				
23 Aug 2011	14-3/4"	VAREL L-117	14 - 15 - 14	0' / 225'	225'	3.00	59.5				
24 Aug 2011	7-7/8''	VAREL Hp-21	14 - 15 - 14	225' / 5,220'	4,995'	144.00	34.7				

ROCK TYPES										
POROSITY E Earthy □ Fenest F Fracture × Inter ✓ Moldic ○ Organic P Pinpoint ✓ Vuggy LITHOLOGY Anhy ■ Bent ■ © ■ Cht □ Coal ● Congl ■ Dol Imst □ Silty dol	Calc dol Dol 2 Dol 2 Dol Gyp Igne Lmst 2 Lmst 2 Lmst 2 Lmst Meta Shale 3 Shale	MINERAL Mica Anhy Arggrn Arg Best Bent Bent Bent Bent Calc Calc Calc Calc Calc Carb Active Ferfag Calc Calc Calc Calc Calc Calc Calc Carb Active Calc Calc Calc Calc Carb Active Calc Calc Calc Carb Active Calc Calc Calc Carb Active Chtlk Chtlt Chtlt Col Calc Calc Calc Carb Active Calc Calc Carb Active Calc Carb Active Chtlk Chtlt Chtlt Chtlt Chtlt Calc Calc Calc Active Calc Carb Active Chtlk Chtlt Chtlt Chtlt Chtlt Calc Calc Calc Calc Chtlk Chtlt Ch	★ Minxl ● Nodule ● Phos P Pyr ■ Salt □ Sandy □ Sandy □ Silt □ Silt □ Sulphur □ Sulphur □ Copper □ Ooliticastic □ Oolitic ● Oolitic ● Oolitic ● Oolitic ● Oolitic ● Oolitic ● Oolite ● Oolite ● Dark specks ● Silty dol ● Silty dol ● Anhy	■ Coal ■ Coal ■ Dol ■ Gyp ■ Ls ■ Calc dol ■ Sltstrg ■ Ssstrg Chalk New symbol HOW Oil Spotted Ques Dead ■ Gas ■ Oil/gas						
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ACTIVITY Lost circluation Circulate for sa		OTHER SYMBOLS am <u>E</u> VENT Connection Rft	Sidewall							

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