

Kansas Corporation Commission Oil & Gas Conservation Division

1094473

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:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
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: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet If Alternate II completion, cement circulated from: sx cmt
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Original Total Depth: Conv. to ENHR	Chloride content: ppm Fluid volume: bbls Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	QuarterSec TwpS. R East West
ENHR Permit #:	County: Permit #:
GSW Permit #:	
Spud Date or Date Reached TD Completion Date or Recompletion Date 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 III Approved by: Date:							

Side Two



Operator Name:				_ Lease N	lame:			Well #:		
Sec Twp	S. R	East	West	County:						
INSTRUCTIONS: Sh time tool open and clo recovery, and flow rate line Logs surveyed. A	osed, flowing and shu es if gas to surface te	t-in pressures, st, along with f	whether sh inal chart(s	nut-in press	ure reach	ed static level,	hydrostatic pres	ssures, bottom h	ole temp	erature, fluid
Drill Stem Tests Taker (Attach Additional S		Yes	No		Log	y Formation	n (Top), Depth a	nd Datum		Sample
Samples Sent to Geo	logical Survey	Yes	No		Name			Тор	I	Datum
Cores Taken Electric Log Run Electric Log Submitte (If no, Submit Copy	d Electronically	Yes Yes Yes	☐ No ☐ No ☐ No							
List All E. Logs Run:										
		Report all	CASING I		New	Used mediate, producti	on, etc.			
Purpose of String	Size Hole Drilled	Size Ca Set (In C	sing	Weigi Lbs. /	ht	Setting Depth	Type of Cement	# Sacks Used	, ,,	and Percent dditives
		AI	DDITIONAL	CEMENTIN	G / SQUE	EZE RECORD				
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Co	ement	# Sacks	Used		Type and	Percent Additives		
Shots Per Foot	PERFORATI Specify I	ON RECORD - Footage of Each	Bridge Plugs Interval Perfo	s Set/Type orated			cture, Shot, Cemei mount and Kind of N		d 	Depth
TUBING RECORD:	Size:	Set At:		Packer At:		Liner Run:				
Date of First, Resumed	Production, SWD or EN		ducing Meth	od:		as Lift C	Yes No	0		
Estimated Production Per 24 Hours	Oil	Bbls.		Mcf	Water		ols.	Gas-Oil Ratio		Gravity
DISPOSITIO	ON OF GAS:		M	IETHOD OF	COMPLET	ION:		PRODUCTIO	ON INTER	VAL:
Vented Sold	Used on Lease	Open	Hole Specify)	Perf.	Dually (nmingled mit ACO-4)			

Form	ACO1 - Well Completion		
Operator	Black Diamond Oil, Inc.		
Well Name Brewer 3			
Doc ID	1094473		

All Electric Logs Run

Neutron/Density
Dual Induction
Micro
Gamma Ray Correlation

API # 15-163-24044-00-00 Operator: Black Dlamond Oil, Inc. Well Name & No: Brewer #3 County: Rooks State: Kansas Location: 104' FSL & 1910' FEL Section 6-6S-19W Tool Pusher: John Mayers 785-259-4392 6 Contractor: WW Drilling, LLC Rig No.: Size: 6 1/4 x 2 1/4 Rig Phone: 785-259-6941 Drill Collars: Spud 5/21/2012 @ 3:45 pm Liner & Stroke: 6 x 14 Make Pump: National K-380 KB Hole Complete: 5/25/12 @ 7:00 pm 3600 Elevation: 2046 K.B. 2051 Approx. TD: Waler Pond Mud Engineer: Ken Rupp Mud Co.: Andy's 05/27/12 05/22/12 05/23/12 05/24/12 05/25/12 05/26/12 05/21/12 Date 5-ctch 6-woo 7-done 4-cfs 1-spud 2-drla 3-drlg Days 3527 524 2646 3362 3465 3527 Depth 2122 716 62 0 103 524 Ft. Cut 2-pump D.T. D.T. 8-woc 18.75 20.5 18 C.T. 25,000 38,000 38,000 38,000 35,000 Bit Wt. all 100 85 85 85 85 RPM 90 750 750 750 750 450 600 Pressure 60 60 60 SPM 60 60 60 9688 8357 9132 **Mud Cost** 8.7 9.3 9.2 9.2 9.2 Mud Wt. 58 56 59 28 29 Viscosity 8.8 7.6 7.6 Water Loss 1000 2000 500 Chlorides 3# 2# 4# L.C.M. 1.5°@3430 1.75°-3527 3/4°-218 Dev. Sur Dev. Sur 2650 2997 2754 1863 1539 3159 891 Fuel 3.5 4' 1.5 2' 3.5 Water-Pit 55.5 52.25 3.5 26.5 46.25 ACC Blt Hrs. sh-lm dol sh-lm Formation sd-sh sd-sh sd-sh cloudy windy Weather clear clear clear cloudy cloudy Cum Hrs. Bit Cond Serial # Tops Type Out Ft. Hrs. Size No. **BR 1549** 218 218 2.25 2.25 RR 12 1/4 Smith 1 57.75 New PX 4335 61 fph 3309 55.5 2 7 7/8 Sm - F-27 3527 3 4 DRILLED OUT REMARKS CEMENT MATERIAL PLUG DOWN SACKS DEPTH SIZE Allied Cem. Did circulate 3:30 AM Common, 3% cc, 2% gel 7:30 PM 217 8 5/8 170 **Quality Cementing** 5/26/2012 11:00 PM 3525 5 1/2 495 **QMDC** RECOVERY OPEN SHUT **OPEN** SHUT INTERVAL NO 30 flush out 5' oll spec mud 30 3378-3430 1 10' oil cut mud 30 30 10-flush out 2 3427-3465 Packer Failure 3 3498-3527 30 30 125' OSM 30 30 3461-3527 4 5 6

Surface Casing Furnished by. Milden delivered 5 joints of 23#, 8 5/8 tally 211.39 set @ 217'.

78

Remarks: Strap & weld surface by Tyler. Anhydrite 1631'-1661', Displaced @ 2765' (580 bbls), Short trip 40 stands @ 3430' (1.75 Hrs), Pipe strap @ 3430' (.039 long), short trip @ 3527(10 std)(.5 hr). RTD 3527', LTD 3529 by Superior, logged 3.75 hrs. Ran 5 1/2 casing set @ 3525'. Plug down @ 11:00 pm, 5/26/12. Rig released @ 1:00 am, 5/27/12.

ALLIED OIL & GAS SERVICES, LLC 05612

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665

SERVICE POINT

@

RUS	SELL, KAN	SAS 676	65		SER	LE POINT:	<
DATE 5-19-21	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE BROWL		3	LOCATION STUD	dun 9N to	AN	COUNTY	STATE
OLD OR NEW (C	Circle one)		Dw 1	v grd 1.13	wints		
CONTRACTOR	Wh	1 = 6		OWNER			
TYPE OF JOB	525	e also					
HOLE SIZE		T.D	. 21º	CEMENT			
	dr.	DE	PTH 118	AMOUNT OR	DERED 17/	ox Das	A
TUBING SIZE		DEI	PTH		11./2 3.1	1.01	
DRILL PIPE		DEI	PTH		3	(200)	
TOOL		DEI	PTH				
PRES. MAX			NIMUM	COMMON_	170	@ 16.20	27/26
MEAS. LINE			DE JOINT 1	POZMIX	1 11/		a red. ja
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	HELPER	time				_@	
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	DRIVER	RVX	ATY.			_ @	
BULK TRUCK						_ @	
#	DRIVER					_@	
				— HANDLING_	117	@ A. A)	402.70
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QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

Se	ec.	Twp.	Range		County	State	On Location	Finish
Date 526-12 (San San San	6	19	100	8/2 1 x 10 1	8		17:00 ms
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Hole Size 78	T	r.D.	3520		cementer and	d helper to assist own	er or contractor to do	work as listed.
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Cement Left in Csg. 42	S	Shoe Jo	oint 4	12.70	The above was	s done to satisfaction an	d supervision of owner	agent or contractor.
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OPERATOR

Company: BLACK DIAMOND OIL, INC

Address: P.O. BOX 641

HAYS, KS 67601

Contact Geologist: KENNETH VEHIGE Contact Phone Nbr: (785) 625-5891

Well Name: BREWER #3

Location: SW SE SW SE 6-6S-19W API: 15-163-24044-0000

Field:

BREWER

Pool:

State: KANSAS Country: USA

Scale 1:240 Imperial

Well Name: BREWER #3

Surface Location: SW SE SW SE 6-6S-19W

Bottom Location:

API: 15-163-24044-0000

License Number: 7076

Spud Date: 5/21/2012 Time: 12:34 PM

Region: ROOKS

Drilling Completed: 5/25/2012 Time: 7:50 PM

Surface Coordinates: 140' FSL & 1910' FEL

Bottom Hole Coordinates:

Ground Elevation: 2046.00ft K.B. Elevation: 2051.00ft

Logged Interval: 217.00ft To: 3529.00ft

Total Depth: 3527.00ft

Formation:

Drilling Fluid Type: FRESH WATER/CHEMICAL GEL

SURFACE CO-ORDINATES

Well Type: Vertical

Longitude: Latitude:

N/S Co-ord: 140' FSL E/W Co-ord: 1910' FEL

LOGGED BY



Company: SOLUTIONS CONSULTING

Address: 108 W 35TH

HAYS, KS 67601

Phone Nbr: (785) 259-3737

Logged By: Geologist Name: JEFF LAWLER

CONTRACTOR

Contractor: WW DRILLING, LLC

Rig #: #6

Rig Type: MUD ROTARY

 Spud Date:
 5/21/2012
 Time:
 12:34 PM

 TD Date:
 5/25/2012
 Time:
 7:50 PM

 Rig Release:
 5/26/2012
 Time:
 12:00 PM

ELEVATIONS

K.B. Elevation: 2051.00ft Ground Elevation: 2046.00ft

K.B. to Ground: 5.00ft

NOTES

DUE TO LOG ANALYSIS, STRUCTURAL POSITION CORRECTION, AND RECOVERY ON DST #4 DECISION WAS MADE TO RUN PRODUCTION CASING AND PERFORATE UPPER LANSING-KANSAS CITY ZONES THAT HAD AN OIL SHOW AND HAD AN ECONOMICAL SW CALCULATION AND PERMEABILITY INDICATED ON THE MICRO LOG.

RESPECTFULLY SUBMITTED, JEFF LAWLER

						WE	LL	CC	MPA	RISC	N SI	ΗE	ΕT														
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TORONTO	3253	-1202	3258	-1207	3283	-1200	-	2	- 7	3300	-1203	+	1	-	4	3271	-1192	-	10		15	3252	-1206	+	4	-	
LKC	3268	-1217	3276	-1225	3297	-1214	-5	3	- 11	3314	-1217	+	0	-	8	3287	-1208	-	9	-	17	3267	-1221	+	4	-	L
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RTD			3527	-1476						3575	-1478			+	2	3551	-1472			-	4	3585	-1539			+	E
LTD	3529	-1478								3575	-1478	+	0			3541	-1462	-	16								L

DST #1 LKC "H-I"



DRILL STEM TEST REPORT

Black Diamond Oil inc.

Brewer 3

Unit No:

PO Box 641

6-6s-19w Rooks

Hays Ks. 67601+0641

Job Ticket: 47333 DST#: 1

39

Reference Bevations:

ATTN: Jeff Lawler Test Start: 2012.05.24 @ 16:09:05

GENERAL INFORMATION:

Formation: LKC"H-I"

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 17:39:50 Tester: Andy Carreira

Time Test Ended: 20:03:10

3378.00 ft (KB) To 3430.00 ft (KB) (TVD)

Total Depth: Hole Diameter:

3430.00 ft (KB) (TVD)

2051.00 ft (KB) 2046.00 ft (CF)

7.88 inchesHole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

SOSM

15.10 psig @ 3381.00 ft (KB) 8000.00 psig Press@RunDepth: Capacity: Start Date: 2012.05.24 End Date: 2012.05.24 Last Calib.: 2012.05.24

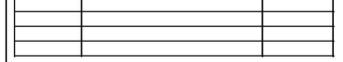
16:09:05 End Time: Time On Btm: 2012.05.24 @ 17:39:40 Start Time: 20:03:10 Time Off Btm: 2012.05.24 @ 18:50:20

TEST COMMENT: IF: (30min) Blow Died in 5 min.

ISI:(30min) No Blow, Flushed, Surge, No Blow, Pulled Tool

0.02

	Pressure				PI	RESSUR	RESUMMARY
790	0072 Pressure	0072 Tempera	ture	Time	Pressure	Temp	Annotation
F	-	Harden Strike	100	(Min.)	(psig)	(deg F)	
		1 Marie		0	1700.61	100.68	Initial Hydro-static
Ė	A	1		1	13.32	99.63	Open To Flow (1)
× -	1			30	15.10	100.48	Shut-In(1)
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4PM	SPM SPM	7PM	8PM				
u May 2012	Time (I	Hours)					
	Recove	n/				Gas	s Rates
		' y				_	
Length (ft)	Description		Volume (bbl)	1		Choke (ii	nches) Pressure (psig) Gas Rate (Mcf/d



Trilobite Testing, Inc Ref. No: 47333 Printed: 2012.05.25 @ 07:46:49

DST #2 LKC "J-K"



DRILL STEM TEST REPORT

Black Diamond Oil inc.

6-6s-19w Rooks

PO Box 641

Brewer 3

Hays Ks. 67601+0641

Job Ticket: 47334 DST#: 2

ATTN: Jeff Lawler Test Start: 2012.05.25 @ 01:34:05

GENERAL INFORMATION:

Formation: LKC"J-K"

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset) Andy Carreira Tester:

Unit No:

Time Tool Opened: 02:43:00 Time Test Ended: 05:07:20

Interval:

Total Depth:

2051.00 ft (KB) Reference Bevations:

2046.00 ft (CF)

Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press@RunDepth: 17.01 psig @ 3430.00 ft (KB)

3465.00 ft (KB) (TVD)

3427.00 ft (KB) To 3465.00 ft (KB) (TVD)

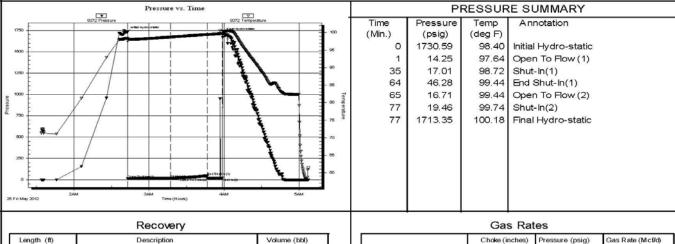
Capacity: 8000.00 psig Start Date: 2012.05.25 End Date: 2012.05.25 2012.05.25 Last Calib .: Start Time: 01:34:05 End Time: 05:07:20 Time On Btm: 2012.05.25 @ 02:42:20

2012.05.25 @ 03:59:20 Time Off Btm:

TEST COMMENT: IF: (30min) Blow Died in 7 min.

ISI:(30min) No Return

FF: No Blow, Flushed, Surge, No Blow, Pulled Tool.



Length (ft)	Description	Volume (bbl)
10.00	Mud	0.05
Recovery from r	nultiple tests	•

Trilobite Testing, Inc Ref. No: 47334 Printed: 2012.05.25 @ 07:45:59



DRILL STEM TEST REPORT

Black Diamond Oil inc.

6-6s-19w Rooks

Job Ticket: 47335

PO Box 641

Hays Ks. 67601+0641

Brewer 3

DST#: 3

ATTN: Jeff Lawler

Test Start: 2012.05.25 @ 22:08:05

Andy Carreira

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset) No

Time Tool Opened:

Time Test Ended: 01:23:40

Unit No:

Tester:

3499.00 ft (KB) To 3527.00 ft (KB) (TVD)

Reference Bevations: 2051.00 ft (KB)

Total Depth: 3527.00 ft (KB) (TVD)

2046.00 ft (CF) KB to GR/CF: 5.00 ft

Hole Diameter: 7.88 inchesHole Condition:

Serial #: 8372 Press@RunDepth: Outside

psig @ 2012.05.25

3500.00 ft (KB)

Capacity: 2012.05.26 Last Calib .: 8000.00 psig

Start Date:

End Date:

01:23:40 Time On Btm:

2012.05.26 2012.05.25 @ 23:24:30

Start Time:

Interval:

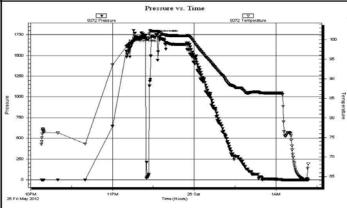
22:08:05

End Time:

Time Off Btm:

2012.05.25 @ 23:35:10

TEST COMMENT: Misrun, Packer Failure.



PRESS	URE	SUM	MARY

Г	Time	Pressure	Temp	Annotation
L	(Min.)	(psig)	(deg F)	
ı	0	1742.56	100.49	Initial Hydro-static
l	11	1732.75	101.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
500.00	Mud	5.91
* Recovery from r	nultiple tests	•

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc.

Ref. No: 47335

Printed: 2012.05.26 @ 08:16:51

DST #4 ARBUCKLE - REAGAN



DRILL STEM TEST REPORT

Black Diamond Oil inc.

6-6s-19w Rooks

Hays Ks. 67601+0641

Brewer 3

Job Ticket: 47336

DST#:4

ATTN: Jeff Lawler

Test Start: 2012.05.26 @ 03:10:05

GENERAL INFORMATION:

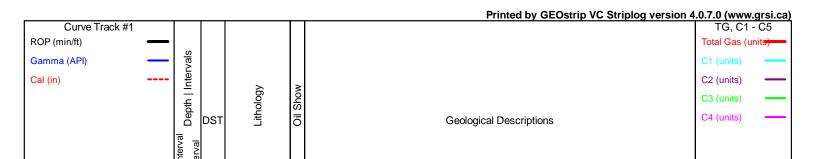
Formation: Arbuckle Deviated:

No Whipstock: Time Tool Opened: 04:24:50

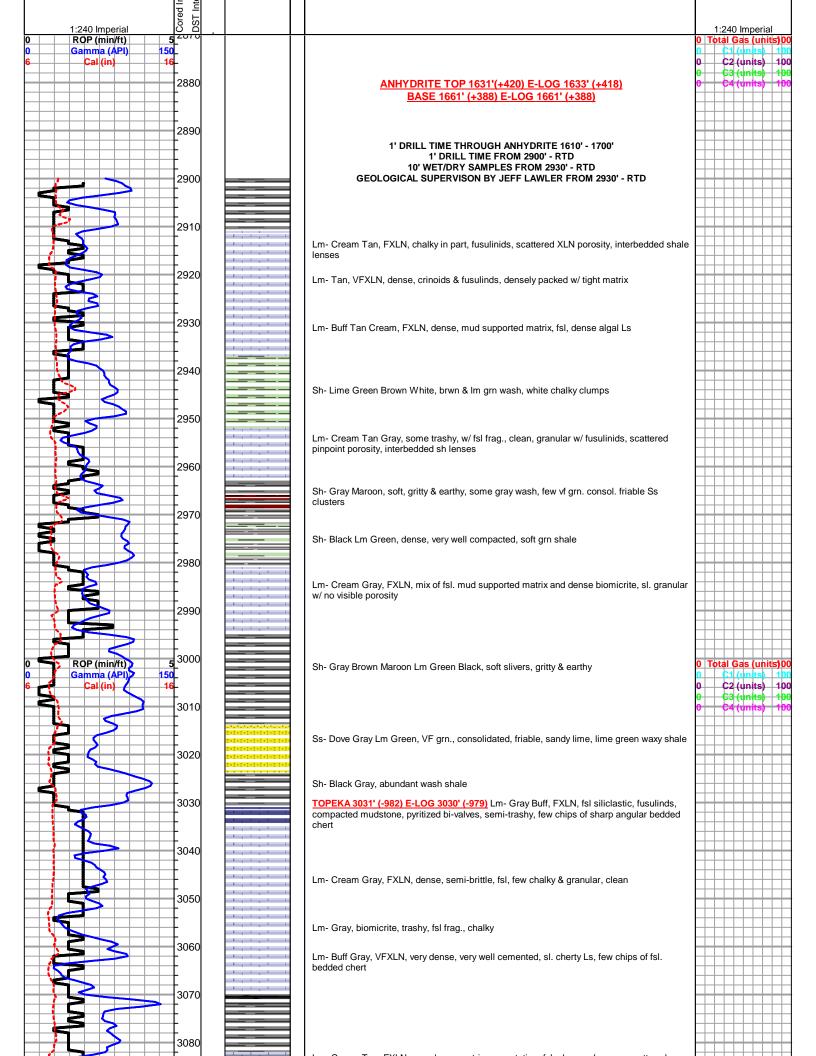
ft (KB)

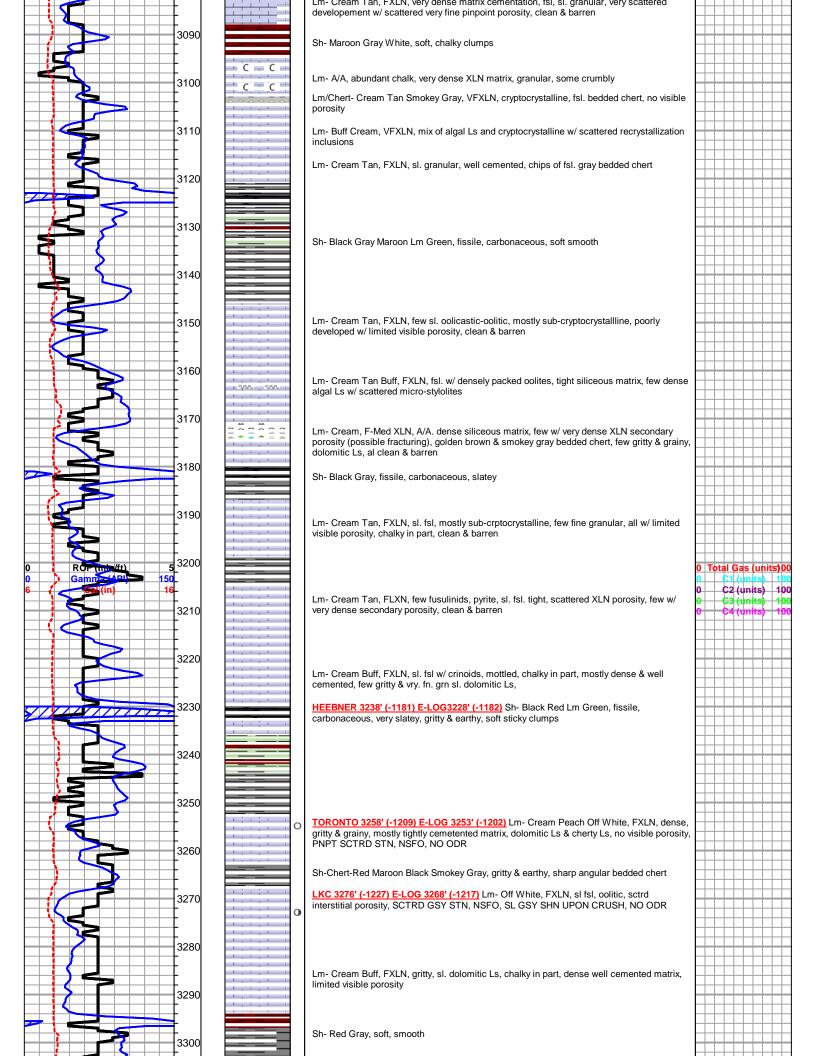
Test Type: Conventional Bottom Hole (Reset) Tester: Andy Carreira

Time Test Ended: 07:52:20 Unit No: 39 Interval: 3461.00 ft (KB) To 3527.00 ft (KB) (TVD) Reference Bevations: 2051.00 ft (KB) Total Depth: 3527.00 ft (KB) (TVD) 2046.00 ft (CF) 7.88 inchesHole Condition: Fair KB to GR/CF: Hole Diameter: 5.00 ft Serial #: 8372 Outside 3466.00 ft (KB) 8000.00 psig Press@RunDepth: 75.89 psig @ Capacity: 2012.05.26 Start Date: 2012.05.26 End Date: Last Calib .: 2012.05.26 Start Time: 03:10:05 End Time: 07:52:20 Time On Btm: 2012.05.26 @ 04:24:10 Time Off Btm: 2012.05.26 @ 06:28:20 TEST COMMENT: IF: (30min) Slow building blow, 2" in 5 min. built to 3" ISI:(30min) No return FF"(30min) 1" in 5 min. 2" in 15 min. built to 2.5" FSI:(30min) No return PRESSURE SUMMARY Pressure vs. Time 0072 Temper Time Pressure Temp Annotation (Min.) (psig) (deg F) 0 1730.33 101.73 Initial Hydro-static 17.95 100.81 Open To Flow (1) 32 51.02 102 36 Shut-In(1) 62 1032.24 102.85 End Shut-In(1) 63 53.86 102.46 Open To Flow (2) 93 75.89 103.00 Shut-In(2) End Shut-In(2) 123 1016.02 103.57 125 1693.89 103.69 Final Hydro-static Recovery Gas Rates Choke (inches) Pressure (psig) Description Volume (bbl) Gas Rate (Mcf/d) Length (ft) 125.00 SOSM 0.65 Recovery from multiple tests Ref. No: 47336 Printed: 2012.05.26 @ 08:15:34 Trilobite Testing, Inc **ROCK TYPES** △△△△ Cht shale, gry Shcol Dolprim Cht vari Lmst fw<7 Shblck Ss Congl Lmst fw7> Carbon Sh Lscongl Chtcongl Cht gy shale, grn shale, red **ACCESSORIES MINERAL** STRAT./SED. STRUCTS STRINGER **TEXTURE** Breccia, fragment nm. Stylolites ^^ Chert C Chalky Sandy red shale **OTHER SYMBOLS** DST



■ DST Int
■ DST alt
■ Core





Lm- Cream Gray, F-Med XLN, sl oolitic, mostly dense matrix, few chips of bio-micrite few w/ 3310 scattered inter oolitic pinpoint porosity, sl. recrystallization w/in, LT STN, NOSFO, NO ODR 3320 Lm- Cream Off White, F-Med XLN, fsl, scttrd. developement w/ scttrd. fine interparticle porosity, few chips w/ consistant ppt. porosity, LT GSY STN, NO SFO, FNT ODR 3330 3340 Lm- Cream Tan, Med XLN, chalky in part, fsl., sl. oolitic, moderately developed, good inter oolitic porosity, crumbly, LT GSY STN, GSY SHN, FNT ODR 3350 Dolomite- Tan, FXLN, sucrosic, tight well cemented, matrix, vf ppt consistant porosity, LT STN, SL SFO, BRIGHT FLOR. UPON CRUSH, GSY ODR 3360 CFS @ 3363 Lm- Cream Tan, FXLN, oolitic, scattered inter particle porosity, speckled w/ pyrite, vry fine ppt porosity, LT SCTTRED GSY STN, NSFO, FNT ODR 3370 Lm- Cream Tan, VFXLN, dense, well cemented algals Ls 3380 Sh- Black Maroon Lm Green, fissile, carbonaceous, smooth soft 3390 Lm- Cream Off White, fsl, oolitic, scttrd developement, few chips w/ consistant vf ppt. porosity throughout, mostly w/ ppt to scttrd sub-vugular, LT GSY STN, FR 3400 SHORT TRIP GSY SHN, NSFO, ODR SURVEY 1 1/2 dgr. STRAP 3456.70 **BOARD 3456.31** STRAP Sh- Red Gray, soft, smooth, blocky DST #1 LKC 3420 Lm-Tan, Med XLN, well developed, fsl, oolitic, some w/ consistant vry fine ppt. porosity, LT SAT STN, SL. SFO, FEW GSY DISSOLUTION BUBBLES, 1 CHP W/BLEEDING FO UNDER LAM, FNT HVY ODR CFS @ 3439 3430 Lm- Cream Tan, Med XLN, fsl. oolitic, sl. chalky, moderately well developed, scattered pinpoint porosity, good inter oolitic porosity, DRK HVY SAT. STN, THIN SCUM, SL ODR 3440 UPON CRUSH, SL SFO Sh- Black Gray Red Maroon Lm Green, dense, well compacted, gritty & earthy 3450 **DST #2** Lm- Tan Off White, VFXLN, dense tight matric, cryptocrytalline to massive well cemented LKC "J-K" siltstone, no visible porosity, chalky 3427 - 3465 3460 CFS @ 3465 Lm- Tan, VFXLN, dense siliceous matrix, well cemented, densely packed oolites, no visible 3470 porosity BKC 3476' (-1425) E-LOG 3475' (-1424) Sh- Red Gray Lm Green, soft, smoth, sl. unconsolidated, abundant gray shale 3480 Sh- Brown wash D S MARMATON 3493' (-1442)Lm/Ss- Cream Tan, F-Med XLN, oolitic, sparsely scttrd inter 3490 oolitic porosity, SCTTRD DRK STN, NSFO, NO ODR Ss- Clear, Sl. Frosted, mostly Т pebble size grns. sub-angular, few fine gr. clusters, friable, clear cementation, eff. w/ HCL, # 1 cluster spkld w/ glaucoite, 2-3 CLUSTERS W/LT BRWN STN, SL SFO UPON CRUSH, DULL FLOR. NO CUT 3500 CFS @ 3500 Sh Congl.- Red Brown, abundant sh and massive granular/nodular Ls concretions CFS @ 3503 Cherty Conglomerate- A/A, few chps of fsl chert and cherty conglomerate CFS @ 3506 Ls Cong.- Red/Purple tint w/ soft sandy lime TBL CFS @ 3510 BNCE Sh/Ls Cong.- dark colored shales and unconsolidated w/ Ls intraclasts, fsl fragments CFS @ 3513 Lm/ Sh- red wash, Tan VFLXN, densely packed oolitic w/ clear siliceous cementation, no visible porosity, clean & barren CFS @ 3517 ARBUCKLE 3520' (-1469) 3519' (-1468) Dolomite- Cream Tan Lm Green Tint- mostly VF CFS @ 3522

