Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1264924

Form ACO-1 November 2016 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.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	
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 EOR ☐ Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)
Described	Chloride content: ppm Fluid volume: bbls
☐ Commingled Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Location of fluid disposal if flauled offsite.
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R
Recompletion Date Recompletion Date	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 Drill Stem Tests Received				
Geologist Report / Mud Logs Received				
UIC Distribution				
ALT I II Approved by: Date:				

Page Two

1264924

Operator Name:				Lease I	Name: _			Well #:	
SecTw	pS. R		East West	County	":				
	, flowing and shu	ut-in pressures,	whether shut-in	n pressure reac	hed stati	c level, hydrosta	itic pressures, b		rval tested, time tool erature, fluid recovery,
Final Radioactivit						ogs must be ema	ailed to kcc-well-	logs@kcc.ks.go	v. Digital electronic log
Drill Stem Tests 7			Yes No)			on (Top), Depth		Sample
Samples Sent to	Geological Surv	/ey	Yes No)	Nam	е		Тор	Datum
Cores Taken Electric Log Run Geolgist Report	_		Yes No Yes No Yes No)					
List All E. Logs R	iun:								
				ING RECORD set-conductor, su	Ne	ew Used ermediate, product	ion, etc.		
Purpose of Str		e Hole rilled	Size Casing Set (In O.D.)	Weig	ght	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
	Di	illeu	Set (III O.D.)	LD3.7	/ I L.	Берит	Oement	Oseu	Additives
Purpose:	D	epth				JEEZE RECORD	T	Danie and Addition	
Perforate	Тор	Bottom	Type of Cement	# Sacks	SUsed		Type and	Percent Additives	
Protect Ca	TD								
Plug Off Zo	one								
Did you perform	a hydraulic fractur	ring treatment on	this well?			Yes	No (If No, s	skip questions 2 aı	nd 3)
2. Does the volume		•	· ·			_		skip question 3)	of the ACO 1)
3. Was the hydraul					e registry?	Yes	No (If No, 1	ill out Page Three	of the ACO-1)
Date of first Production:	ction/Injection or R	lesumed Producti	on/ Producing Flowing		ıg 🗌	Gas Lift (Other (Explain)		
Estimated Produc	tion	Oil Bbls.	Gas	Mcf	Wat	er B	bls.	Gas-Oil Ratio	Gravity
Per 24 Hours									
DISPO	OSITION OF GAS:			METHOD OF	COMPLE	ETION:		PRODUCTION Top	ON INTERVAL: Bottom
	Sold Used	d on Lease	Open Hole	Perf.			mmingled mit ACO-4)	тор	Bottom
,	,								
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plu Set At	ıg	Acid		ementing Squeeze nd of Material Used,	
TUBING RECORE	D: Size:	Se	et At:	Packer At:					

Form	ACO1 - Well Completion	
Operator	Culbreath Oil & Gas Company, Inc.	
Well Name	Boyd 2-3	
Doc ID	1264924	

Tops

Name	Тор	Datum
Anhydrite	2562	+473
Base Anhy	2585	+450
Topeka	3782	-747
Heebner	4008	-973
Toronto	4026	-1017
Lansing	4052	-1017
ВКС	4338	-1303
Pawnee	4476	-1441
Fort Scott	4530	-1495
Miss	4657	-1622

Form	ACO1 - Well Completion	
Operator	Culbreath Oil & Gas Company, Inc.	
Well Name	Boyd 2-3	
Doc ID	1264924	

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight		Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	310	Common	200	3%сс
Production	7.857	5.5	15.5	4759	TB 3	175	8%



Culbreath Oil & Gas Co, Inc

3 11s 32w Logan, Ks

3801 S.Yale Ave. Tulsa, Oklahoma 74135 **Boyd #2-3**Job Ticket: 61804

DST#:1

ATTN: Steve Murphy

Test Start: 2015.07.18 @ 18:12:00

GENERAL INFORMATION:

Formation: Toronto

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

Time Tool Opened: 20:36:15 Tester: Bradley Walter

Time Test Ended: 02:14:45 Unit No:

Interval: 4014.00 ft (KB) To 4054.00 ft (KB) (TVD) Reference Elevations: 3035.00 ft (KB)

Total Depth: 4054.00 ft (KB) (TVD) 3030.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8365 Inside

Press@RunDepth: 793.88 psig @ 4015.00 ft (KB) Capacity: 8000.00 psig

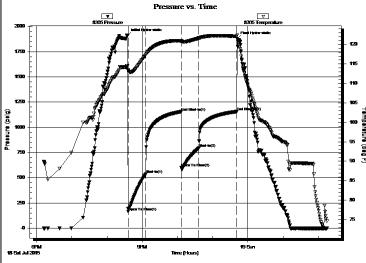
 Start Date:
 2015.07.18
 End Date:
 2015.07.19
 Last Calib.:
 2015.07.19

 Start Time:
 18:12:05
 End Time:
 02:14:44
 Time On Btm:
 2015.07.18 @ 20:34:45

Time Off Btm: 2015.07.18 @ 23:41:45

TEST COMMENT: IF: BOB @ 1 min.

ISI: No return. FF: BOB @ 2 min. FSI: No return.



	PRESSURE SUMMARY					
	Time	Pressure	Temp	Annotation		
	(Min.)	(psig)	(deg F)			
	0	1907.25	114.48	Initial Hydro-static		
	2	164.00	113.21	Open To Flow (1)		
	32	535.10	117.24	Shut-In(1)		
_	92	1153.40	120.98	End Shut-In(1)		
edine.	92	600.67	120.70	Open To Flow (2)		
refure	122	793.88	121.59	Shut-In(2)		
Temperature (deg F)	186	1154.76	122.07	End Shut-In(2)		
J	187	1877.62	122.38	Final Hydro-static		

DDESCLIDE CLIMMADV

Recovery

Length (ft)	Description	Volume (bbl)
1215.00	mcw 2m 98w (w/oil specs)	15.97
410.00	socw 50 95w	5.75
5.00	oil 100o	0.07

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

Trilobite Testing, Inc Ref. No: 61804 Printed: 2015.07.19 @ 06:10:10



FLUID SUMMARY

Culbreath Oil & Gas Co, Inc

3 11s 32w Logan, Ks

3801 S.Yale Ave.

Boyd #2-3

Tulsa, Oklahoma 74135

Job Ticket: 61804 **DST#:1**

ATTN: Steve Murphy

Test Start: 2015.07.18 @ 18:12:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:17 deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:65000 ppm

Viscosity: 52.00 sec/qt Cushion Volume: bbl

Water Loss: 6.40 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 2000.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

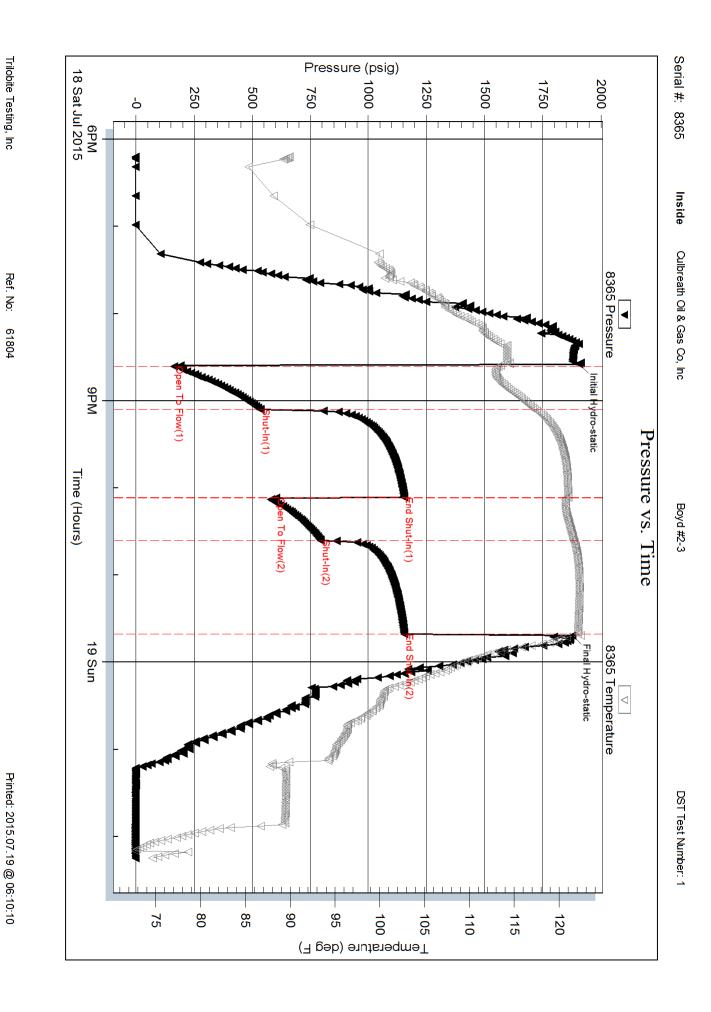
	Length ft	Description	Volume bbl
ı	1215.00	mcw 2m 98w (w/oil specs)	15.968
İ	410.00	socw 50 95w	5.751
İ	5.00	oil 100o	0.070

Total Length: 1630.00 ft Total Volume: 21.789 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location: Recovery Comments: rw is .18 @ 70 = 65000ppm

Trilobite Testing, Inc Ref. No: 61804 Printed: 2015.07.19 @ 06:10:10





Culbreath Oil & Gas Co, Inc

3 11s 32w Logan, Ks

3801 S.Yale Ave. Tulsa, Oklahoma 74135

Job Ticket: 61805

Boyd #2-3

DST#: 2

ATTN: Steve Murphy

Test Start: 2015.07.19 @ 12:36:00

GENERAL INFORMATION:

Formation: LKC E

Time Tool Opened: 14:34:00

Time Test Ended: 20:04:30

Interval:

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset) Tester: **Bradley Walter**

Unit No:

3035.00 ft (KB)

4116.00 ft (KB) To 4142.00 ft (KB) (TVD)

Reference Elevations:

3030.00 ft (CF) 5.00 ft

Total Depth: 4142.00 ft (KB) (TVD) Hole Diameter:

KB to GR/CF:

7.88 inches Hole Condition: Good

Serial #: 8365 Inside

Press@RunDepth: 4117.00 ft (KB) 338.65 psig @

> 2015.07.19 End Date: 2015.07.19

Capacity: Last Calib.: 8000.00 psig

2015.07.19

Start Date: Start Time: 12:36:05

End Time:

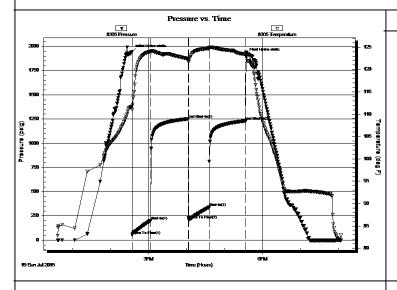
20:04:29

2015.07.19 @ 14:33:45 Time On Btm:

2015.07.19 @ 17:34:00 Time Off Btm:

TEST COMMENT: IF: BOB @ 5 min.

ISI: 7" return. FF: BOB @ 1 min. FSI: BOB return @ 10 min.



Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1943.04	111.88	Initial Hydro-static
1	50.88	111.01	Open To Flow (1)
29	201.78	124.05	Shut-In(1)
89	1251.01	122.38	End Shut-In(1)
90	211.96	121.95	Open To Flow (2)
122	338.65	124.69	Shut-In(2)
179	1229.84	123.43	End Shut-In(2)
181	1909.01	123.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	mcw 5m 95w	3.27
120.00	gow cm 20g 20o 20w 40m	1.68
380.00	go 40g 60o	5.33
0.00	1140 GIP	0.00
* Recovery from mult	tiple tests	

Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 61805

Printed: 2015.07.20 @ 04:09:09



FLUID SUMMARY

Culbreath Oil & Gas Co, Inc

3 11s 32w Logan, Ks

3801 S.Yale Ave. Tulsa, Oklahoma 74135 Boyd #2-3

Job Ticket: 61805

DST#: 2

ATTN: Steve Murphy

Test Start: 2015.07.19 @ 12:36:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:40 deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:42000 ppm

Mud Weight: 9.00 lb/gal Cushion Length: ft
Viscosity: 50.00 sec/qt Cushion Volume: bbl

Water Loss: 7.20 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 2000.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

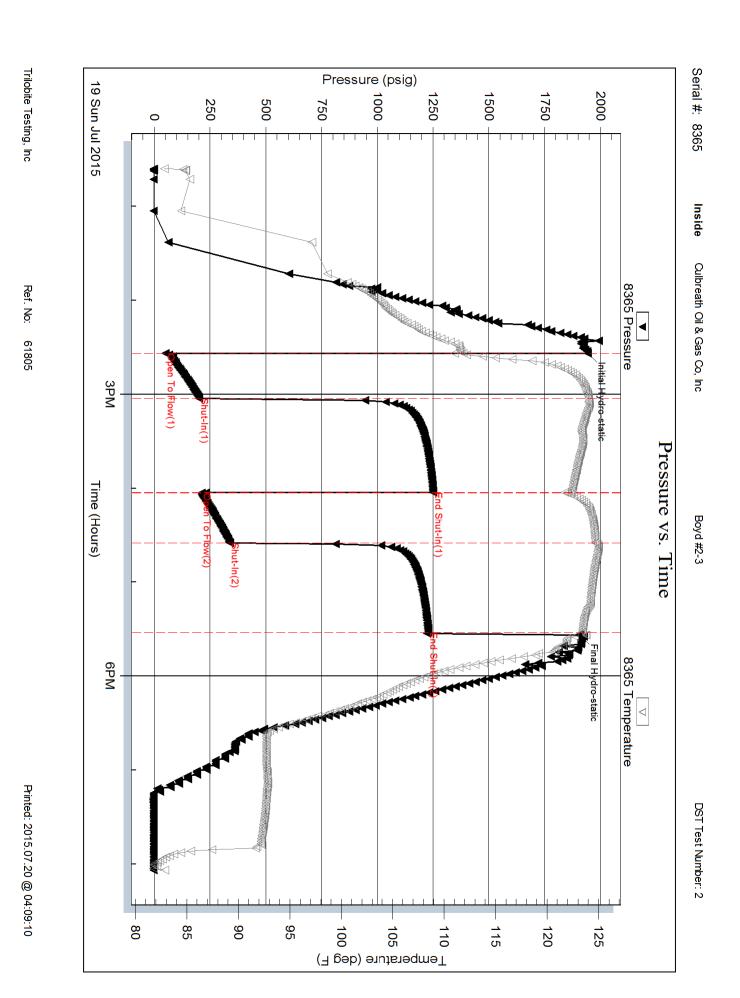
Length ft	Description	Volume bbl
310.00	mcw 5m 95w	3.274
120.00	gow cm 20g 20o 20w 40m	1.683
380.00	go 40g 60o	5.330
0.00	1140 GIP	0.000

Total Length: 810.00 ft Total Volume: 10.287 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location: Recovery Comments: rw is 160 @ 83 = 42,000ppm

Trilobite Testing, Inc Ref. No: 61805 Printed: 2015.07.20 @ 04:09:10





Culbreath Oil & Gas Co, Inc

3 11s 32w Logan, Ks

3801 S.Yale Ave. Tulsa, Oklahoma 74135 Boyd #2-3

Job Ticket: 61806

DST#: 3

ATTN: Steve Murphy

Test Start: 2015.07.20 @ 16:26:00

GENERAL INFORMATION:

Formation: LKC I&J

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:22:00 Time Test Ended: 23:43:45

Interval:

Start Date:

Start Time:

4226.00 ft (KB) To 4278.00 ft (KB) (TVD)

Total Depth: 4278.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good Hole Diameter:

Test Type: Conventional Bottom Hole (Reset) Tester: **Bradley Walter**

Unit No:

Reference Elevations:

3035.00 ft (KB)

3030.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8365 Inside

Press@RunDepth: 4227.00 ft (KB) 283.44 psig @ Capacity:

> End Date: 2015.07.20 End Time:

Last Calib.:

8000.00 psig 2015.07.20

23:43:44

2015.07.20 @ 18:21:30 Time On Btm:

Time Off Btm:

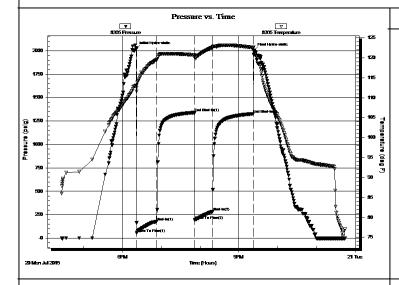
2015.07.20 @ 21:23:15

TEST COMMENT: IF: BOB @ 5.5 min.

ISI: BOB @ 11 min. FF: BOB @ 1 min. FSI: BOB @ 5 min.

2015.07.20

16:26:05



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2022.58	113.02	Initial Hydro-static
1	52.10	112.45	Open To Flow (1)
31	175.99	119.43	Shut-In(1)
90	1340.28	120.68	End Shut-In(1)
91	194.10	120.10	Open To Flow (2)
118	283.44	122.60	Shut-In(2)
181	1327.01	122.53	End Shut-In(2)
182	2003.10	121.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
260.00	mcw 15m 85w (oil spots)	2.57
120.00	gmco 50g 30o 20m	1.68
300.00	go 45g 55o	4.21
0.00	1970 GIP	0.00
* Recovery from mul	tiple tests	•

Gas Rates

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

Trilobite Testing, Inc. Ref. No: 61806 Printed: 2015.07.21 @ 00:20:47



FLUID SUMMARY

Culbreath Oil & Gas Co, Inc

3 11s 32w Logan, Ks

3801 S.Yale Ave. Tulsa, Oklahoma 74135 **Boyd #2-3**Job Ticket: 61806

DST#:3

ATTN: Steve Murphy

Test Start: 2015.07.20 @ 16:26:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:38 deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:36000 ppm

Viscosity: 53.00 sec/qt Cushion Volume: bbl

Water Loss: 7.20 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 2000.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
260.00	mcw 15m 85w (oil spots)	2.572
120.00	gmco 50g 30o 20m	1.683
300.00	go 45g 55o	4.208
0.00	1970 GIP	0.000

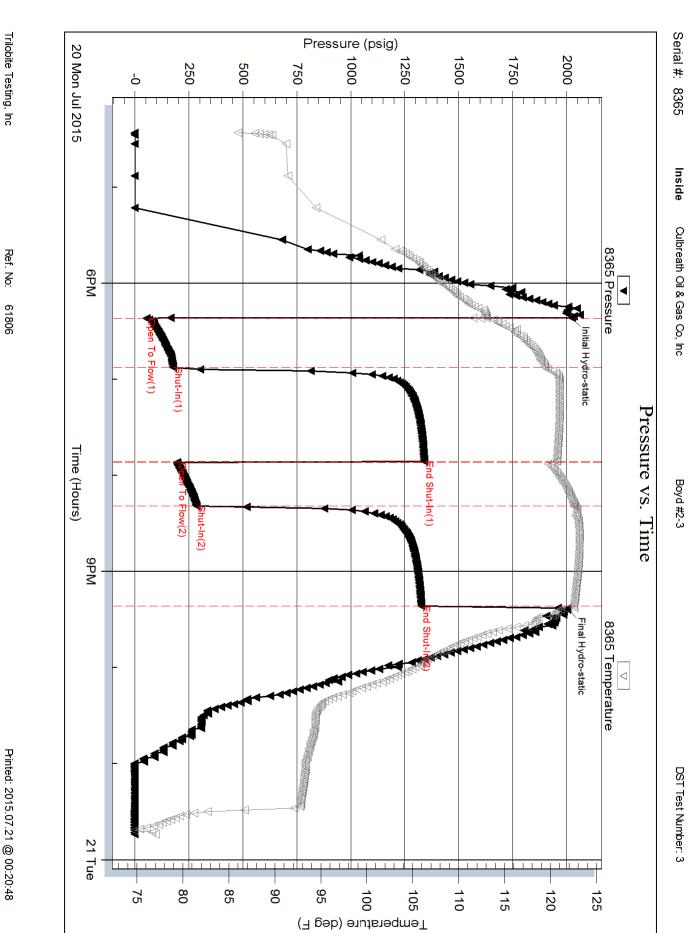
Total Length: 680.00 ft Total Volume: 8.463 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: rw .18 @77f = 36000ppm

Trilobite Testing, Inc Ref. No: 61806 Printed: 2015.07.21 @ 00:20:47





Culbreath Oil & Gas Co, Inc

Boyd #2-3

3801 S.Yale Ave. Tulsa, Oklahoma 74135

Job Ticket: 61807

3 11s 32w Logan, Ks

DST#: 4

ATTN: Steve Murphy

Test Start: 2015.07.22 @ 15:00:00

GENERAL INFORMATION:

Formation: Johnson

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:31:15 Time Test Ended: 00:38:45

4594.00 ft (KB) To 4630.00 ft (KB) (TVD) Interval:

Total Depth: 4630.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good Hole Diameter:

Test Type: Conventional Bottom Hole (Reset)

Bradley Walter

Unit No:

Tester:

3035.00 ft (KB)

Reference Elevations:

3030.00 ft (CF) KB to GR/CF: 5.00 ft

Serial #: 8365 Press@RunDepth:

Start Date:

Start Time:

Inside

812.47 psig @ 2015.07.22

15:00:05

4595.00 ft (KB) End Date:

End Time:

2015.07.23

Capacity: Last Calib.: 8000.00 psig

00:38:45

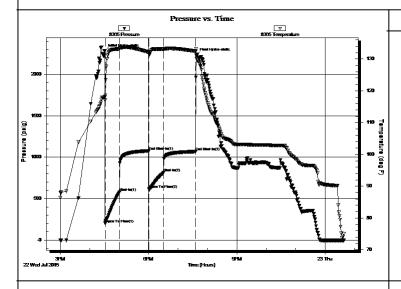
2015.07.23 2015.07.22 @ 16:31:00

Time On Btm: Time Off Btm:

2015.07.22 @ 19:37:00

TEST COMMENT: IF: BOB @ 1 min.

ISI: 4 1/2" return. FF: BOB @ 1 min. FSI: BOB @ 15 min.



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2279.18	117.98	Initial Hydro-static
1	202.27	117.06	Open To Flow (1)
30	579.73	133.16	Shut-In(1)
90	1075.70	132.07	End Shut-In(1)
90	614.43	131.74	Open To Flow (2)
120	812.47	133.05	Shut-In(2)
185	1067.02	132.42	End Shut-In(2)
186	2229.81	131.15	Final Hydro-static
	l		

Recovery

Length (ft)	Description	Volume (bbl)
1930.00	go 25g 75o	26.00
180.00	go 30g 70o	2.52
0.00	850'GIP	0.00
* Recovery from mult	tiple tests	

Gas Rates

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

Printed: 2015.07.23 @ 08:17:06

Ref. No: 61807 Trilobite Testing, Inc



FLUID SUMMARY

Culbreath Oil & Gas Co, Inc

3 11s 32w Logan, Ks

3801 S.Yale Ave.

Tulsa, Oklahoma 74135

Boyd #2-3

Job Ticket: 61807

DST#: 4

ATTN: Steve Murphy

Test Start: 2015.07.22 @ 15:00:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:25 deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:0 ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:65.00 sec/qtCushion Volume:bbl

7.20 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 2000.00 ppm Filter Cake: 1.00 inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
1930.00	go 25g 75o	25.998
180.00	go 30g 70o	2.525
0.00	850'GIP	0.000

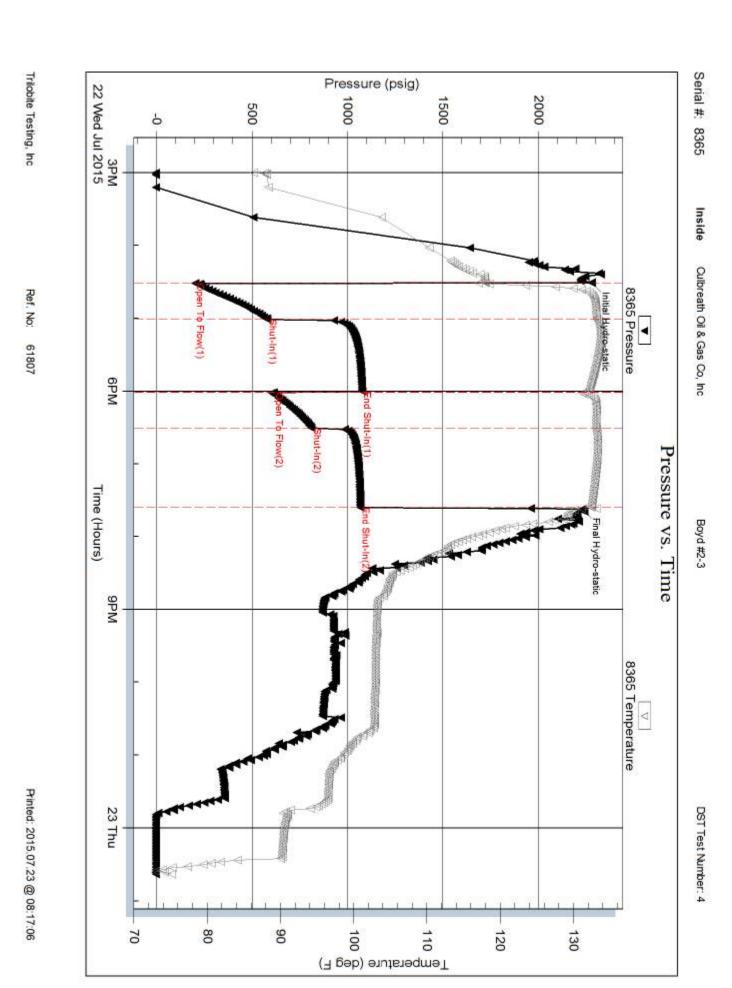
Total Length: 2110.00 ft Total Volume: 28.523 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 61807 Printed: 2015.07.23 @ 08:17:06





TICKET NUMBER

LOCATION Oak FOREMAN KELLY

FIELD TICKET & TREATMENT REPORT

PO Box 884, Chanute, KS 66720 COUNTY CEMENT 620-431-9210 or 800-467-8676 RANGE SECTION TOWNSHIP WELL NAME & NUMBER CUSTOMER# 2 12 3700 Logan 7-23-15 子り CUSTOMER Oakley TRUCK# DRIVER DRIVER TRUCK# 5 +0245 anys MAILING ADDRESS Telem RA IW 1/45 ZIP CODE STATE CITY CASING SIZE & WEIGHT 5/2 15,5# JOB TYPE POOL - DV **HOLE SIZE** OTHER DV@ 2558 TUBING CASING DEPTH 4759 DRILL PIPE CEMENT LEFT in CASING 411.13 WATER gal/sk 2 SLURRY VOL RATE MIX PSI did etreulate Pluglanded @ 120th cement UNIT PRICE TOTAL **DESCRIPTION of SERVICES or PRODUCT** ACCOUNT QUANITY or UNITS CODE 390000 390000 PUMP CHARGE CE 0450 35 75 MILEAGE CECOOD 5m-66000 9,73 400 455000 Thickso Blend III (owa CC 5862 50 875井 CC 6077 ite weight Blend 5005KS CC 5831 00 2 125年 CC 6075 AFU Floatshore (W) CO 8485 12 latchdown ASSY/wPluglw こでをみが 1/2 CENTRALIZES (W a basket CRALZO 5 in 0 Les5 SALES TAX ESTIMATED Ravin 3737 TOTAL DATE 7 - 23

AUTHORIZTION I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

TITLE

TERMS

In consideration of the prices to be charged for Consolidated Oil Well Services, LLC (COWS) services, equipment and products and for the performance of services and supplying of materials, Customer agrees to the following terms and conditions.

Terms. Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice date. On all invoices not paid within 30 days, Customer agrees to pay COWS interest at the rate of 18% per annum or the maximum rate allowed by law, whichever is higher. In the event COWS retains an attorney to pursue collection of any account, Customer agrees to pay all collection costs and attorney's fees incurred by COWS.

Any applicable federal, state or local sales, use occupation, consumer's or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

All COWS' prices are subject to change without notice.

SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by COWS. The Customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the Customer shall be present to specify depths; pressures, or materials used for any service which is to be performed.

- (a) GOWS shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a 'claim') for damage to property, or injury to or death of employees and representatives, of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of COWS, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.
- (b) Unless a claim is the result of the sole willful misconduct or gross negligence of COWS, Customer shall be responsible for and indemnify and hold COWS harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by COWS; (3) injury to or death of persons, other than employees of COWS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole: and (4) well damage or reservoir damage caused by (i) loss of circulation, cement invasion, cement misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) subsurface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. COWS may furnish down hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage, loss or result caused by the use of such tools.

Furthermore, Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

- (c) COWS makes no guarantee of the effectiveness of any COWS' products, supplies or materials, or the results of any COWS' treatment or services.
- (d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, COWS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by COWS. COWS' personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that COWS shall not be responsible for any damage arising from the use of such information except where due to COWS' gross negligence or willful misconduct in the preparation or furnishing of it.
- (e) COWS may buy and re-sell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, type A & B packers, and Customer agrees that COWS is not an agent or dealer for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify COWS against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

WARRANTIES - LIMITATION OF LIABILITY

COWS warrants title to the products, supplies and materials, and that the same are free from defects in workmanship and materials. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. COWS's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of any COWS' products, supplies, materials or services is expressly limited to the replacement of such products, supplies, materials or services or their return to COWS or, at COWS' option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against COWS for any special, incidental, indirect, consequential or punitive damages.

CONSOLIDATED
Oil Well Services, LLC

REMIT TO Consolidated Oil Well Services, LLC Dept. 970 P.O. Box 4346 Houston, TX 77210-4346

MAIN OFFICE

P.O. Box 884 Chanute, KS 66720 620/431-9210, 1-800/467-8676 Fax 620/431-0012

Currency: \$

CULBREATH OIL & GAS CO.INC 1532 S. PEORIA AVE TULSA OK 74120 Account No.

2777

Statement Date

8/5/2015

Terms Net 30

Prior Period B	Balance							\$ 30,846.51
Document	BP Ref. No.	Post. Date	Due Date	Details			Amount	Balance
RC 1988		07/09/15	07/09/15	Incoming	Payments - 2777		-25,166.08	5,680.43
IN 805069	BOYD B #2	07/28/15	08/27/15	A/R Invo	ices - 2777		20,629.60	26,310.03
Total		AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	THE RESERVE OF THE PERSON OF T					\$ 26,310.03
	Balance Due	Future Remit	0	- 30	31 - 60	61 - 90	91 - 120	121-
Total	-4,536.48		-4,53	6.48				
Aging (%)	100.000 %		100.00	0 %				





P.O. Box 205803 Dallas, TX 75320-5803

Voice: Fax: (832) 482-3742 (832) 482-3738

Bill To:

Culbreath Oil & Gas Co., Inc. 3501 S Yale Ave Tulsa, OK 74135

INVOICE

Invoice Number: 150222

Invoice Date: Jul 13, 2015

1

Page:

Federal Tax I.D.#: 20-8651475

Customer ID	Field Ticket#	Payment Terms Net 30 Days	
Cul	67818		
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jul 13, 2015	8/12/15

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Boyd #2-3		
200.00	CEMENT MATERIALS	Class A Common	17.90	3,580.00
564.00	CEMENT MATERIALS	Chloride	1.10	620.40
210.00	CEMENT SERVICE	Cubic Feet Charge	2.48	520.80
1.00	CEMENT SERVICE	Ton Mileage Charge	380.00	380.00
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
5.00	CEMENT SERVICE	Pump Truck Mileage	7.70	38.50
5.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	22.00
1.00	CEMENT SUPERVISOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		
1.00	EQUIPMENT OPERATOR	Brandon Wilkinson		
		=		

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$

3,203.49

ONLY IF PAID ON OR BEFORE

Jul 13, 2015

Subtotal	6,673.95
Sales Tax	336.03
Total Invoice Amount	7,009.98
Payment/Credit Applied	
TOTAL	7,009.98

ALLIED OIL & GAS SERVICES, LLC Federal Tax I.D. #20-5975804 0 6 7 8 1 8

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76	092	SERVICE POINT:							
DATE 7-13-15 SEC. 3 TWP. 12	RANGE 32	CALLED OUT	ON LOCATION	JOB START	JOB FINISH				
LEASE BOYD WELL# 2-3	LOCATION Oakley	5m15 1	1/25	COUNTY	STATE				
OLD OR NEW (Circle one)	Einto	1 3 1	~,,	Sogan	, P3_				
	L [7] 10	-							
CONTRACTOR WW2 TYPE OF JOB Surface	- Slo	OWNER 5	ane						
HOLE SIZE 1214 T.D.	311	CEMENT							
CASING SIZE X5/8 DEF		AMOUNT ORI	DERED 20T	sks lon	034.00				
TUBING SIZE DEF					7.00				
DRILL PIPE DEF	TH			3,10,000					
TOOL DEF	TH	•			-				
	IMUM	COMMON	200 sts	@ 17.90	3580.00				
MEAS. LINE SHO	EJOINT	POZMIX		@					
CEMENT LEFT IN CSG. 15'		GEL							
PERFS.		CHLORIDE	564#	@ 1.10	620,40				
DISPLACEMENT 18.5 661	H30	ASC		@					
EQUIPMENT				@					
		-							
PUMPTRUCK CEMENTER Par	Reciver			@					
# 422 HELPER Warne	madal								
BULK TRUCK	megngny			@					
#373/300 DRIVER Brandon	Willinson	-							
BULK TRUCK	- WITHUS MY	1		_@					
# DRIVER				@	4.200.40				
Mix 200 sts Com 3	1. CC		SERV	ЛСЕ	% <u>2016. 19</u>				
		HANDLING 2	1044_		520.80				
coment did cire		MILEAGE 7.		in: v 2.75	380,00				
		DEPTH OF JOB	309'	3000 in thi	mum charges				
5.66/to pit		PUMP TRUCK (CHARGE		1512.25				
		EXTRA FOOTA	GE	@					
	Thank You.	HV MILEAGE	5	@ 1.70	38.50				
	Paul + Crew	LV MILEAGE	5	- "	22.00				
		D (NAMBITOD							
CHARGE TO: Culbreath	1								
CTREET					2,47355				
STREET									
CITYSTATE	ZIP		DIS	SCOUNT 10_9	187.30				
		P	LUG & FLOA	r equipmen	T				
T AU' 10'10 C C C IXO		-		_@					
To: Allied Oil & Gas Services, LLC.		-		_@					
You are hereby requested to rent cem									
and furnish cementer and helper(s) to				@					
contractor to do work as is listed. The				@					
done to satisfaction and supervision of	Contraction of the Contraction o			TOTAL					
contractor. I have read and understar			nre	SCOUNT					
TERMS AND CONDITIONS" listed	on the reverse side.								
1 2 2 4 6 1	1.1.1	SALES TAX (I	The Property of the Contract						
PRINTED NAME	THUCH	TOTAL CHAP	RGES 6.67	3.95					
		DISCOUNT 3		488)IF PAI	D IN 30 DAYS				
SIGNATURE SUCCE W	4-6	NET TOTAL			ID IN 30 DAYS				



Petroleum Geologist (KS #228)

Cell 620.639.3030 Fax 785.387.2400

RR#1, Box 69 Otis, Kansas 67565 geomurphy@gbta.net

Scale 1:240 (5"=100') Imperial **Measured Depth Log**

Well Name: Boyd #2-33

API: 15-109-21424-00-00

Location: **Logan County**

License Number: 34344

Region: Kansas Spud Date: 7/13/15 Drilling Completed: 7/24/15

Surface Coordinates: 2286' FNL & 1627' FWL (NW SW SE NW)

33-T11S-R32W

Bottom Hole Coordinates: Same as above (Vertical well w/minimal deviation)

3030' K.B. Elevation (ft): 3035' Ground Elevation (ft):

Total Depth (ft): RTD-4765'/LTD-4756' Logged Interval (ft): To: TD

Formation: Topeka through Mississippian

Type of Drilling Fluid: Chemical/Polymer/Gel (KDT- Ken Rupp, Mud Engineer)

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

OPERATOR

Company: Culbreath Oi & Gas

Address: 1532 S. Peoria Ave.

Tulsa, OK 74120

GEOLOGIST

Name: Steven P. Murphy, PG

Company: Consulting Petroleum Geologist (License #228)

Address: 3365 County Rd 390

Otis, KS 67565 Cell: 620-639-3030

REMARKS

Halliburton performed the open-hole wireline logging with stacked Dual Compensated Porosity, Dual Induction, and Microresistivity Logs.

The following are log tops of formations with associated datums (in parentheses) referenced to sea level:

Anhydrite Top - 2562(+473))

Anhydrite Base - 2585 (+450)

Topeka - 3782 (-747)

Heebner - 4008 (-973)

Toronto - 4026 (-991)

Lansing - 4052 (-1017)

Muncie Creek - 4187 (-1152)

Stark - 4272 (-1237)

Hushpuckney - 4309 (-1274)

Base KC - 4338 (-1303)

Marmaton - 4387 (-1352)

Pawnee - 4476 (-1441)

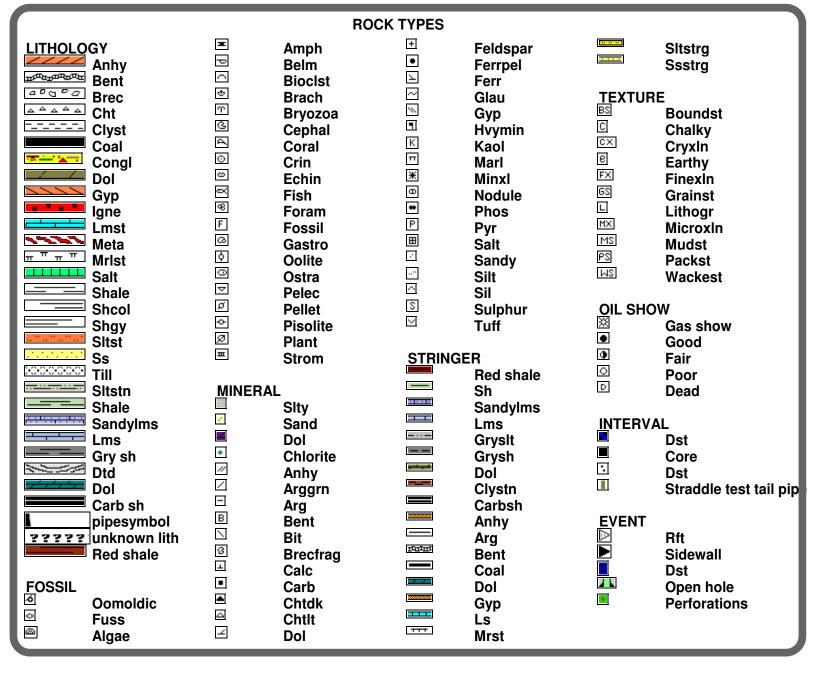
Myrick Station - 4512 (-1477)

Fort Scott - 4530 (-1495)

Cherokee - 4554 (-1519)

Johnson Zone - 4686 (-1551)

Mississippian - 4657 (-1622)



DSTs Drillstem testing was performed by Bradley Walter w/Trilobite Testing, Inc (Scott City shop): **DST #1 4014-4054 (Toronto)** 30:60:30:60 IF: BOB 1 min, NR FF: BOB 2 min, NR Recovery: 5' Oil (17 gravity), 410' SOCW (5%O, 95% W), 1215' SMCW (98%W, 2% M) IHP: 1907 FHP: 1878 IFP: 164-535 ISIP: 1153 FFP: 601-794 FSIP: 1155 BHT - 127 F DST #2 4116-4142 (LKC "E") 30:60:30:60 IF: BOB 5 min, 7" return FF: BOB 1 min, BOB return 10 min Recovery: 1140' GIP, 380' Gsy Oil (40%G, 60%O), 120' GOWCM (20%G, 20%O, 20%W, 40%M), 310' MCW (95%W, 5%M) IHP: 1943 FHP: 1909 IFP: 51-202 ISIP: 1251 FFP: 212-339 FSIP: 1230 Oil Gravity - 40 API Chlorides - 42,000 ppm DST #3 4226-4278 (LKC "I-J") 30:60:30:60 IF: BOB 5.5 min, return BOB 11 min FF: BOB 1 min, return BOB 5 min

30:60:30:60 IF: BOB 5.5 min, return BOB 11 min FF: BOB 1 min, return BOB 5 min Recovery: 1970' GIP, 300' Gsy Oil (45%G, 55%O), 120' GMCO (50%G, 30%O, 20%M), 260' MCW (85%W, 15%M) IHP: 2023 FHP: 2003 IFP: 52-176 ISIP: 1340 FFP: 194-283 FSIP: 1327 Oil Gravity - 37 API Chlorides - 36,000 ppm

DST #4 4594-4630 (Johnson)

30:60:30:60

BHT - 123 F

IF: BOB 1 min, return 4.5 in

FF: BOB 1 min, return BOB 15 min

Recovery: 850' GIP,

1930' Gsy Oil (25%G, 75%O), 180' Gsy Oil (30%G, 70%O) IHP: 2279 FHP: 2230 IFP: 202-580 ISIP: 1076 FFP: 614-812 FSIP: 1067 Oil Gravity - 25 API BHT - 132 F

COMMENTS															
WW Drilling Co - Rig #2 (Toolpusher - Lonnie Lang)															
Deviation surveys were taken at the following depths: 311'- 3/4 deg 832'- 3/4 deg 1341' - 3/4 deg 1849' - 3/4 deg 2423' - 3/4 deg 2964' - 1/2 deg 3473' - 3/4 deg 3980' - 1 deg 4142' - 1 deg 4632' - 1 deg 4765' - 1-1/2 deg															
Pipe was strapped @4054' (DST #1) - 1.41' long to board. No corrections were made to the geolograph and/or the mudlog. NOTE: LTD (4756') was 9' short to the RTD(4765')															
				Irillstem tests, and log & sample analysis, it was determine I in the Johnson Zone and LKC.	ed t	ha	t 5-	·1/2	'' C	asii	ng				
Well samples were col	lecte	d for	th	e Kansas Well Sample Library.											
Respectfully submitted	d,														
Steven P. Murphy, PG Kansas License #228															
Curve Track 1 ROP (Min/Ft) Gamma (API) Caliper (inches)	Depth	Lithology	Oil Shows	Geological Descriptions		TG (I		_	eeri	ing [Jata	l	•		
ROP (Min/Ft) 10 Gamma (API) 150 Caliper (inches) 16	3650	3650			WW Rig #2	0			Ť	G, ¢1	-C5			50	
			3650			8 5/8" Surface Casing @ 310'									
7						Top Anhydrite - 2571 (+464) Base Anhydrite - 2596 (+439)									
						The following formation tops are estimates based on ROP & sample analysis. Please refer to the header section above for actual log tops.									
					NOTE: LTD (4756') was 9' short to the RTD (4765')										
					Begin sample examination @ 3700'							<u> </u>			
					LS: crm-brn-gry, fxln, dense, sl foss, sl chalky, NS							<u></u>			
				LS: as above											

