

Co	nfiden	tiality	/ Requested:
	Yes	N	lo

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1183792

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #			API No. 15		
Name:			Spot Description:		
Address 1:			Sec	TwpS. R	East West
Address 2:			F6	eet from North /	South Line of Section
City:	State: Z	ip:+	Fe	eet from East /	West Line of Section
Contact Person:			Footages Calculated from I	Nearest Outside Section C	Corner:
Phone: ()			□ NE □ NW	V □SE □SW	
CONTRACTOR: License #			GPS Location: Lat:	, Long: _	
Name:				(e.g. xx.xxxxx)	(e.gxxx.xxxxx)
Wellsite Geologist:			Datum: NAD27	NAD83 WGS84	
Purchaser:			County:		
Designate Type of Completion:			Lease Name:	W	/ell #:
	e-Entry	Workover	Field Name:		
	_		Producing Formation:		
☐ Oil ☐ WSW ☐ D&A	☐ SWD	∐ SIOW □ SIGW	Elevation: Ground:	Kelly Bushing:	:
	GSW	Temp. Abd.	Total Vertical Depth:	Plug Back Total C	Depth:
CM (Coal Bed Methane)	dow	Temp. Abd.	Amount of Surface Pipe Se	et and Cemented at:	Feet
☐ Cathodic ☐ Other (Co	ore, Expl., etc.):		Multiple Stage Cementing	Collar Used? Yes	No
If Workover/Re-entry: Old Well I			If yes, show depth set:		Feet
Operator:			If Alternate II completion, c	cement circulated from:	
Well Name:			feet depth to:	w/	sx cmt.
Original Comp. Date:					
Deepening Re-perf	•	NHR Conv. to SWD	Drilling Fluid Managemer	nt Plan	
☐ Plug Back	Conv. to G		(Data must be collected from the		
Commingled	Pormit #:		Chloride content:	ppm Fluid volume	e: bbls
Dual Completion			Dewatering method used: _		
SWD			Location of fluid disposal if	hauled offsite	
☐ ENHR			1		
GSW	Permit #:		Operator Name:		
_ _			Lease Name:	License #:_	
Spud Date or Date R	eached TD	Completion Date or	Quarter Sec	TwpS. R	East _ West
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						
Geologist Report Received						
UIC Distribution						
ALT I III Approved by: Date:						

Page Two



Operator Name:			Lease Name:			Well #:	
Sec Twp	S. R	East West	County:				
open and closed, flow and flow rates if gas to Final Radioactivity Lo	ving and shut-in pressu to surface test, along w og, Final Logs run to ob	ormations penetrated. Dures, whether shut-in pre with final chart(s). Attach otain Geophysical Data a or newer AND an image t	essure reached stati extra sheet if more and Final Electric Lo	c level, hydrosta space is needed	tic pressures, bott d.	om hole tempe	erature, fluid recovery,
Drill Stem Tests Take		Yes No	L	og Formatio	on (Top), Depth an	nd Datum	Sample
Samples Sent to Geo	ological Survey	Yes No	Nam	е		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
			RECORD Ne				
	Siza Hala	Report all strings set-o	1			# Cooks	Type and Parcent
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADDITIONAL	CEMENTING / SQL	IEEZE BECORD			
Purpose: Perforate Protect Casing Plug Back TD	Depth Top Bottom	Type of Cement	# Sacks Used	ELECTION ID	Type and P	ercent Additives	
Plug Off Zone							
Does the volume of the		n this well? aulic fracturing treatment ex submitted to the chemical o		? Yes	No (If No, ski	p questions 2 and p question 3) out Page Three	
Shots Per Foot		N RECORD - Bridge Plugootage of Each Interval Peri			cture, Shot, Cement		Depth
	- Cpany			, , ,			23,500
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No		
Date of First, Resumed	Production, SWD or ENF	HR. Producing Meth		Gas Lift C	Other (Explain)		
Estimated Production Per 24 Hours	Oil B	bbls. Gas	Mcf Wate	er B	bls. G	as-Oil Ratio	Gravity
Vented Sole	ON OF GAS: d Used on Lease shmit ACO-18.)	Open Hole Other (Specify)	METHOD OF COMPLE Perf. Dually (Submit A	Comp. Cor	nmingled mit ACO-4)	PRODUCTIO	ON INTERVAL:

Form	ACO1 - Well Completion
Operator	Palmer Oil, Inc.
Well Name	Willis 23-5
Doc ID	1183792

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.250	8.625	24	1740	65/35 & class A		6%gel,3% CC.
Production	7.875	5.50	17	6477	AA2	200	



1700 S. Country Estates Rd. Liberal, Kansas 67905 Phone 620-624-2277

FIELD SERVICE TICKET 1717 **04477** A

	RE PUMPIN					DATE	TICKET NO		
DATE OF 12/2/1	3 DIS	TRICT 1717		NEW WELL	OLD F	PROD INJ	□ wbw □ 8	CUSTOMER ORDER NO.:	
CUSTOMER Palm	ier &	1 / Americ	can War	VIOT LEASE W	illi:	5	23-5	WELL NO.	
ADDRESS		.,		COUNTY	stow	ens	STATE K	P	
CITY STATE					REW 7	muy	Danies	1	
AUTHORIZED BY T	KO	AND PORT OF THE PROPERTY OF TH		JOB TYPE:	700	7 1/5			
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALL	ED 129A	F (# 37)	MED
14939	9			-		ARRIVED AT	JOB 17/1	AM S	100
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become a part of this contra		TERIAL, EQUIPMENT				WELL OWNE	R, PERATOR, CON-	TRACTOR OR A	
REF. NO.	MA 7	TERIAL, EQUIPMENT	AND SERVICES	SUSED	UNIT	CONTRAMOR OF BROADS OF	UNIT PRICE	2712 CONVENIEN	
U05 AF	1-6	24-			PK	200		3640	00
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CIU 30 103 C-	15 41P			```	111	1107		553	50
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F1751 AU F407 La F4957 Cu F4557 Cu F3000 Th C151 Mu E101 He E240 Ble E113 Bu E207 Deg E207 Deg E207 Deg	15 41P Ison Ison Italian reach weach	Float Sh Down Ph Lizers & Busket Lock Wish Equip M Equip M Equip M Livery harge 600 may leage	Meagl	SERVICE & EQUI	Lb Lb Lb EA EA PA SK TM Whre Solo	113 47 1000 1 1 17 17 100 250 578 1 1 500	SUB TOTAL CON \$ CON \$	553 1412 188 670 360 400 955 34 430 700 350 924 3240 750 712	50 50 50 50 50 50 50 50 50 50 50 50 50 5

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY

(WELL OWNER OPERATOR CONTRACTOR OR AGE

FIELD SERVICE ORDER NO.

SERVICE

REPRESENTATIVE



FIELD SERVICE TICKET CON

TICKET NO. 17/70447) PRESSURE PUMPING & WIRELINE ITEM/PRICE REF. NO. MATERIAL, EQUIPMENT AND SERVICES USED UNIT QUANTITY UNIT PRICE \$ AMOUNT ea TAYLOR PRINTING, IN (800) 870-71

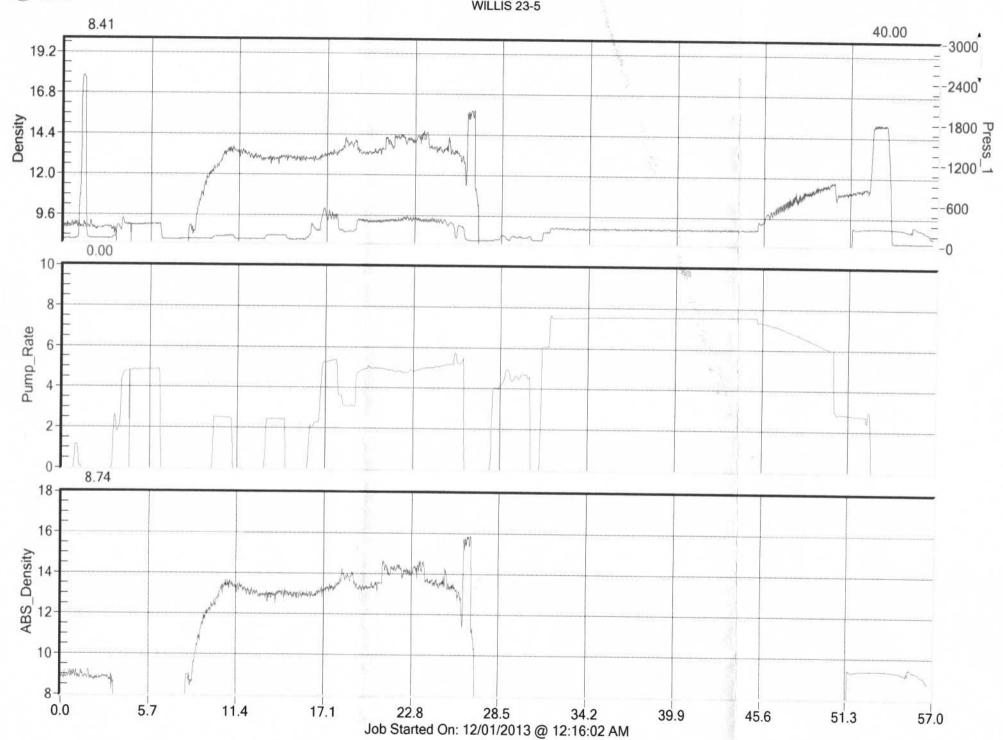


Cement Report

	Customer	almer 8	di Am	evican Warrioz	Lease No.		Date	2/2/13
	Lease W	illis			Well # 2	3-5	Service Receip	
	Casing 5	1/2	Depth		County		State	
	Job Type	Lis.		Formation		Legal	Description	
			Pipe I	Data		Perfe	orating Data	Cement Data
	Casing size	51/2		Tubing Size			Shots/Ft	Lead 200 < X AA - Z @14,8
	Depth /	495.1	09	Depth		From	То	- 14.8 S- HB
	Volume	154	in institution	Volume		From	То	15/ 6/6
	Max Press	2000	>	Max Press		From	То	Tail in 50 SX
	Well Conne	ction P. (Annulus Vol.		From	То	- 60/40 POZ
	Plug Depth			Packer Depth		From	То	100
	Time	Casing Pressure	Tubing Pressure	Bbls. Pumbed	Rate		Service	e Log
	17100	Flessule	riessure	DDIS. 1 GIIIDGO	Hate	on Loc	e Sout &	R.D Saffran
2/2		2500				Test 1	inos	ici o i out office
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	Custom	er Represe	ntative	Ska	tion Mana	iger	Cen	nenter Taylor Printing



PALMER OIL AMERICAN WARRIOR WILLIS 23-5



ALLIED OIL & GAS SERVICES, LLC 052352

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665 SERVICE POINT:

LEASE (U) 115 WELLY 23-5 LOCATION FLOG FOR K2, ALL CRU, SOUNTY STATE CLOCK TON CITICE ONE) CONTRACTOR DUKE #7 OWNER Palmers Off CEMENT COLOR A 35CC, V4 Ibbak Floste 2005 A 35CC, V4 Ibbak Floste CHICKIDE 27 SK 64', V7, 728' ASC CHICKIDE 27 SK 64', V4 Ibbak Floste CHICKIDE 27 SK 65', V4 Ibbak Floste CHIC	DATE/1-21-13	SES 3	TWP. 325	RANGE 37W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
CONTRACTOR Dake #9 OWNER Planers Dil TYPE OF 10B Strace TD 1760 14 CASING SIZE STR DEPTH 75 8 14 TUBING SIZE DEPTH 75 8 14 TOOL	LEASE WILLS	ASS SHEET SE	73-5	LOCATION Huge	16.2 ks 14	cry	SECURITY OF THE PROPERTY OF THE PARTY OF THE	STATE
HOLE SIZE /2 /4 TD 176014 CASING SIZE 3/8 24 H DEPTH DEPTH 1758 +14 TUBING SIZE DEPTH DRILL PIPE DEPTH DEPTH DEPTH PRES MAX / 200 PST MINIMUM MEAS LINE SHOE JOINT /2,61 H POWN A 2002 4 © 17.70 3.580° MEAS LINE CEMENT LEFT IN CSG 42.61 EQUIPMENT EQUIP	CONTRACTOR	Duk	EXPERIMENTAL SERVICES.	9) shireng taribis nade sasadi dade	OWNER F	almers 2	organisas (name) (name) (name) (name) (name) (name)	or bedestroom www.basephiloso Silia seb waxien
DRILL PIPE DEPTH PRES MAX 200 P51 MINIMUM MEAS LINE CEMENT LEFT IN CSG 42.61 POZMIX DISPLACEMENT 197, 278815 CHLORIDE 27 3K 64.00 7,728.00 DISPLACEMENT 197, 278815 CHLORIDE 27 3K 64.00 7,728.00 PUMP TRUCK CEMENTER 10 ben Chauce 830 584 Helper Cesar Paule BULK TRUCK PUMP TRUCK CEMENTER 10 ben Chauce 830 584 Helper Cesar Paule BULK TRUCK MILEAGE 276, 20 16.00 16.00 BULK TRUCK MILEAGE 276, 20 16.00 16.00 REMARKS: REMARKS: TOTAL 2,642, 40 16.00 MANIFOLD 1 bend 1.00 1.00 MANIFOLD 1 bend 1.00 1.00 MANIFOLD 1 bend 1.00 MANIFOL	HOLE SIZE /2// CASING SIZE 8 /	4	T.D.	TH 1758-14	AMOUNT O	RDERED <u>625</u>	5465/35	67. Gel,
PRES. ANX 1200 PS I MINIMUM MEAS, LINE SHOE JOINT 42 11 POPTING S. 42 11 GENERAL LEFT IN CSG. 42 11 GENERAL GENERAL CHURCHE 27 3K 64 GM 57 7 728 50 IN GENERAL GENERA	DRILL PIPE	alie tamiji ud odbie	DEF	TH			1/4/6/sk	Flosele
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POMP TRUCK #370-584 HELPER Cesor Payer BULK TRUCK #370-467 DRIVER Gregory Randall. BULK TRUCK BULK TRUCK BULK TRUCK REMARKS: REMARKS: REMARKS: REMARKS: REMARKS: DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE MILEAGE 1571 10 10 176 17 10 176 10 1	WESTERNISHER OF THE STATE OF TH	en EQU	IPMENT	nesis de es de en en en 1939 de en en en en en en en en	Flosele	206 16	The second secon	611.82
BULK TRUCK # 4 70-467 DRIVER Oregory Randall. BULK TRUCK # HANDLING 932.3 Cot		ALTERNATION OF THE PERSON OF T	The state of the state of the state of		eri od <u>rodka odr</u> ni merija kontrol		G SANSAN AND SANSAN AN	
BULK TRUCK BULK T	THE CONTRACT OF THE CONTRACT O	HELPER	Lesa	r Pavis	er erisəninən əvi	sada y III 200	<u></u>	1 TURY
REMARKS: ROTAL 22,647.4 RAMBE	#470-467 E	DRIVER (Sregor	Randall.	Hing <u>szerinek</u> Taban		Commence of the second	
REMARKS: TOTAL 22,643.4 SERVICE DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE MILEAGE heavy Nom. @ 1,70 308.00 MILEAGE heavy Nom.	A 先起 (10 mm)	ORIVER	li ling kerd	Appendix Continue	neat of the Additional	020311		9 211 43
SERVICE DEPTH OF IOB PUMP TRUCK CHARGE EXTRA FOOTAGE MILEAGE Learn NOM. © 7.73 308 90 MANIFOLD + head © 275.50 275.50 AIGHT Dehicle HOM. © 176.00 CHARGE TO: Pulmee Dil STREET CITY STATE TOTAL 2.972.7 TOTAL 2.972.7 TO: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side. PRINTED NAME PRINTED NAME DISCOUNT IF PAID IN 30 DAYS DISCOUNT IF PAID IN 30 DAYS 10 140 140 140 140 140 140 140 140 140 1					MILEAGE /	376,80 Ton	1. 2.60	4,099,68
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PUMP TRUCK CHARGE EXTRA FOOTAGE MILEAGE Acry MOM. @ 7.70 308. © MANIFOLD Head @ 275. © MANIFOL			Tell Carrier I					. — / . C.
CHARGE TO: STREET CITY STATE ZIP PLUG & FLOAT EQUIPMENT Concluded Shoe 1 @ 250. 250. 250. 250. 250. 250. 250. 250.	Albanian Silbacina	Mart Waller	Carrie States			the state of the s		2213,75
CHARGE TO: Palmer DN STREET CITY STATE ZIP PLUG & FLOAT EQUIPMENT TOTAL 2,972.7 To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side. PRINTED NAME Condition of Owner agent or Contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side. DISCOUNT IF PAID IN 30 DAYS 275.60 176.00 TOTAL 2,972.7 LEGIT POLICY AND CONDITIONS SIDE OF TOTAL POLICY AND CONDITIONS SIDE OF TOTAL CHARGES 25 616.18 x.8 + 904.95 DISCOUNT IF PAID IN 30 DAYS 20,492.94 + 904.95	Major Control Control		non- gradin		EXTRA FOO	TAGE	and the second second second	7-2-20
CHARGE TO: Palmee ON STREET CITY STATE ZIP PLUG & FLOAT EQUIPMENT Guide 5 hoe 1 @ 250.70 250.70 AFU Fluid Value 1 @ 239.90 239.90 Centralize 5 @ 37.90 112.50 For Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side. PRINTED NAME And Conditions of the reverse side. DISCOUNT IF PAID IN 30 DAYS 20.492.94 + 904.8	After the program by the set of the	Andrews No. 6102.1	erica W. gate A Themasura	e ordered Manager of phones when when the over		AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	A CONTRACTOR OF THE PARTY OF TH	275.00
CHARGE TO: Palmer Discrete STREET CITY STATE ZIP PLUG & FLOAT EQUIPMENT Guide Shoe 1 @2507 250.70 AFU float Value 1 @2579 239.00 AFU float Value 1 @2579 250.70 AFU float Value 1 @2579 239.00 Contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side. PRINTED NAME PAID 10705 DISCOUNT IF PAID IN 30 DAYS 20,492.94 + 9.04.95	" we garmachted make	baparrah	in Bay, tel	eri and translation on			OF THE RESERVE OF THE PARTY OF	176.00
TOTAL 2,972.7 CITY STATE ZIP PLUG & FLOAT EQUIPMENT To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side. PRINTED NAME	CHARGE TO: F	almer	וינת	nas da kunga dada sa Ke Kenjaga Basin Dijibah	a filozofia <u>a filozofia a filozofia</u> I Tiron a filozofia a filozofia a filozofia		@	
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20,492.94 + 904.8		Citat an	1-2-6	2 -	TOTAL CHA	RGES $\approx 3/6$	10 .º X.8	+404.13
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	SIGNATURE	with	en 19	ups	_ (91 20-	TO VENEZATIVE	dra som henre

St Louis



Prepared For: Palmer Oil

3118 N Cummings Rd Garden City, KS 67846

ATTN: Wyatt Urdan

Willis #23-5

23-32s-37w Stevens,KS

Start Date: 2013.11.29 @ 18:36:02 End Date: 2013.11.30 @ 08:05:02 Job Ticket #: 54666 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.12.03 @ 15:20:28



Palmer Oil

23-32s-37w Stevens, KS

3118 N Cummings Rd

Willis #23-5

Garden City, KS 67846

Job Ticket: 54666 **DST#:1**

ATTN: Wyatt Urdan

Test Start: 2013.11.29 @ 18:36:02

GENERAL INFORMATION:

Formation: St Louis

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:16:02 Time Test Ended: 08:05:02

Interval:

6295.00 ft (KB) To 6375.00 ft (KB) (TVD)

Total Depth: 6375.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane McBride

55

Unit No: 55

Capacity:

55

3120.00 ft (KB)

8000.00 psig

Reference Elevations:

3109.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6771 Inside

Press@RunDepth: 1010.90 psig @ 6296.00 ft (KB)

 Start Date:
 2013.11.29
 End Date:
 2013.11.30
 Last Calib.:
 2013.11.30

 Start Time:
 18:36:02
 End Time:
 07:44:02
 Time On Btm:
 2013.11.29 @ 22:14:17

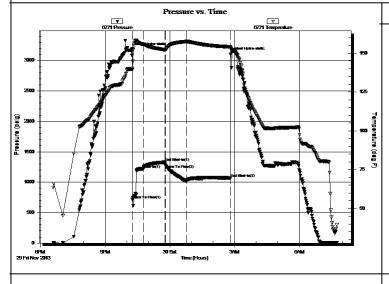
Time Off Btm: 2013.11.30 @ 02:49:17

TEST COMMENT: Slide tool 40' to bottom B.O.B. @ open

8" return blow

B.O.B in 4 1/2 min.G.T.S. in 10 min to weak to gauge

Bled off throughout shutin



PRESSURE	SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	3179.02	139.68	Initial Hydro-static
2	711.90	139.45	Open To Flow (1)
32	1215.72	155.67	Shut-In(1)
93	1328.64	152.18	End Shut-In(1)
93	1292.46	152.17	Open To Flow (2)
152	1010.90	157.51	Shut-In(2)
275	1069.89	154.10	End Shut-In(2)
275	3100.11	153.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	under circ sub g m c o 20g 35m 45o	0.62
2394.00	c g o 25g 75o (reversed out)	33.02
126.00	c g o 20g 80o (dumped)	1.77
0.00	gas to surface 10min on 2nd flow	0.00
0.00	to w eak to gauge	0.00

Gas Rates

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

23-32s-37w Stevens, KS

55

3118 N Cummings Rd Garden City, KS 67846 Willis #23-5

Job Ticket: 54666

DST#:1

ATTN: Wyatt Urdan

Test Start: 2013.11.29 @ 18:36:02

GENERAL INFORMATION:

Formation: St Louis

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:16:02 Time Test Ended: 08:05:02

Interval:

6295.00 ft (KB) To 6375.00 ft (KB) (TVD)

Total Depth: 6375.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane McBride

Reference Elevations: 3120.00 ft (KB)

3109.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8844 Outside

Press@RunDepth: psig @ 6296.00 ft (KB) Capacity: 8000.00 psig

Start Date: 2013.11.29 End Date: 2013.11.30 Last Calib.: 2013.11.30

Start Time: 18:35:18 End Time: 07:43:03 Time On Btm:

Time Off Btm:

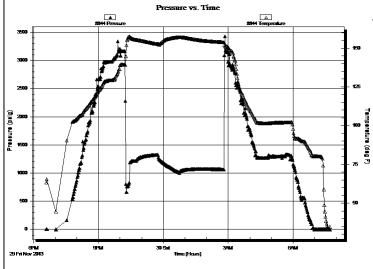
Unit No:

TEST COMMENT: Slide tool 40' to bottom B.O.B. @ open

8" return blow

B.O.B in 4 1/2 min.G.T.S. in 10 min to weak to gauge

Bled off throughout shutin



PRESSURE SUMMARY

	Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	

Recovery

Length (ft)	Description	Volume (bbl)
126.00	under circ sub g m c o 20g 35m 45o	0.62
2394.00	c g o 25g 75o (reversed out)	33.02
126.00	c g o 20g 80o (dumped)	1.77
0.00	gas to surface 10min on 2nd flow	0.00
0.00	to w eak to gauge	0.00

Gas Rates

Choke (inche	es) Pressure (psig)	Gas Rate (Mcf/d)
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TOOL DIAGRAM

Palmer Oil

23-32s-37w Stevens, KS

3118 N Cummings Rd Garden City, KS 67846 Willis #23-5

Job Ticket: 54666

DST#:1

ATTN: Wyatt Urdan

Test Start: 2013.11.29 @ 18:36:02

Tool Information

Drill Pipe: Length: 6093.00 ft Diameter:
Heavy Wt. Pipe: Length: 0.00 ft Diameter:
Drill Collar: Length: 188.00 ft Diameter:

3.80 inches Volume: 85.47 bbl 0.00 inches Volume: 0.00 bbl 2.25 inches Volume: 0.92 bbl

86.39 bbl

Total Volume:

Tool Weight: 2000.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 130000.0 lb

Drill Pipe Above KB: 14.00 ft
Depth to Top Packer: 6295.00 ft

Tool Chased 0.00 ft String Weight: Initial 80000.00 lb

Depth to Bottom Packer: ft Interval between Packers: 80.00 ft

Final 87000.00 lb

Tool Length: 108.00 ft Number of Packers: 2

2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			6268.00		
Shut In Tool	5.00			6273.00		
Hydraulic tool	5.00			6278.00		
Jars	5.00			6283.00		
Safety Joint	3.00			6286.00		
Packer	5.00			6291.00	28.00	Bottom Of Top Packer
Packer	4.00			6295.00		
Stubb	1.00			6296.00		
Recorder	0.00	6771	Inside	6296.00		
Recorder	0.00	8844	Outside	6296.00		
Perforations	9.00			6305.00		
Change Over Sub	1.00			6306.00		
Drill Pipe	63.00			6369.00		
Change Over Sub	1.00			6370.00		
Bullnose	5.00			6375.00	80.00	Bottom Packers & Anchor

Total Tool Length: 108.00



FLUID SUMMARY

Palmer Oil 23-32s-37w Stevens,KS

3118 N Cummings Rd Garden City, KS 67846 Willis #23-5

Job Ticket: 54666 **DST#:1**

ATTN: Wyatt Urdan Test Start: 2013.11.29 @ 18:36:02

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: 44 deg API

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 0 ppm

Viscosity: 48.00 sec/qt Cushion Volume: bbl

Water Loss: 7.19 in³ Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 2100.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

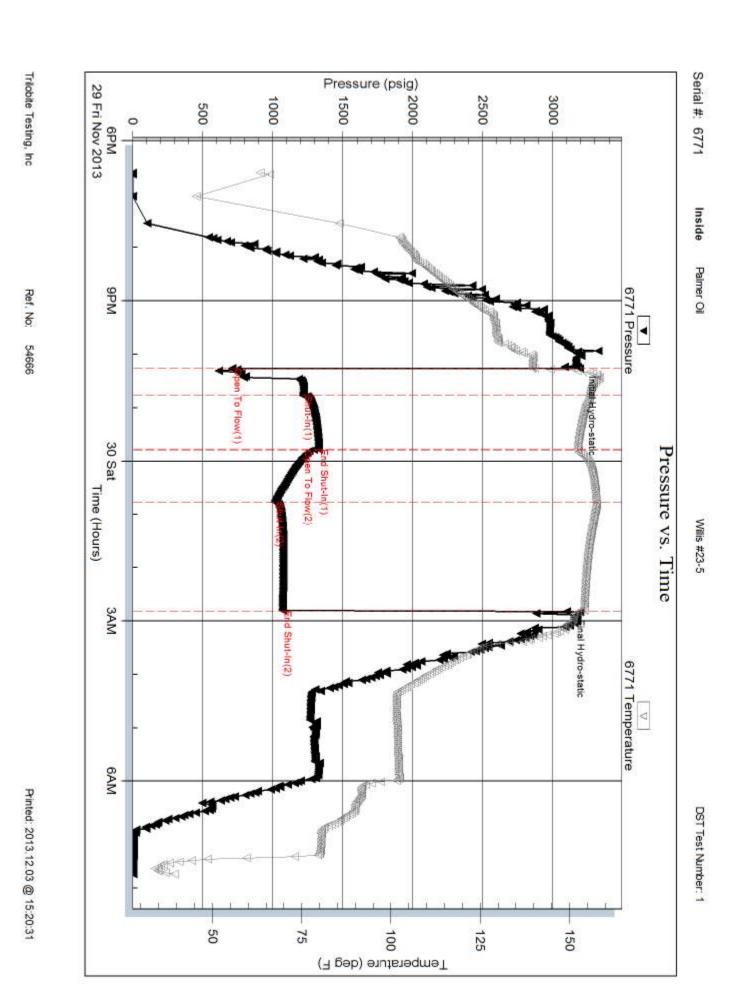
Length ft	Description	Volume bbl
126.00	under circ sub g m c o 20g 35m 45o	0.620
2394.00	c g o 25g 75o (reversed out)	33.017
126.00	c g o 20g 80o (dumped)	1.767
0.00	gas to surface 10min on 2nd flow	0.000
0.00	to w eak to gauge	0.000

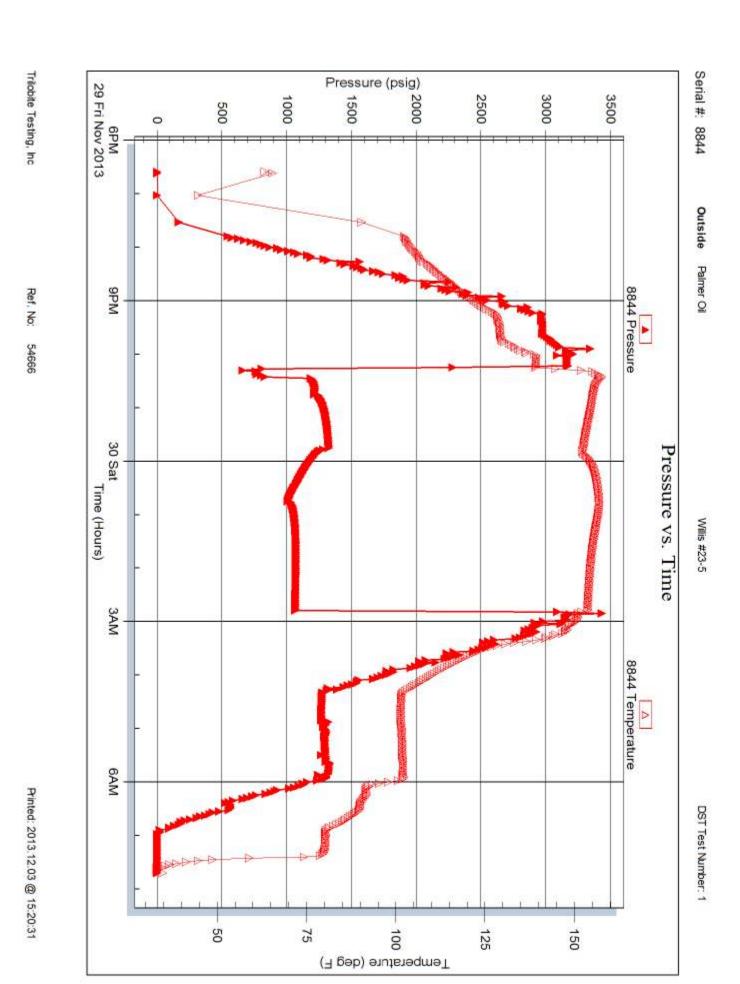
Total Length: 2646.00 ft Total Volume: 35.404 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:







Initial Open 30

Initial Shut-In(D)

Final Flow 60

Final Shut-In

Test Ticket

Ruined Packer

0

2461.20

☐ Extra Copies

MP/DS/ Disc't

Sub Total

320

ESTING INC. 54666 NO. 1515 Commerce Parkway . Hays, Kansas 67601 Test No. GL Elevation Company Address < Co. Rep / Geo. Rge. Location: Sec. Zone Tested (Interval Tested Drill Pipe Run Mud Wt. Anchor Length Drill Collars Run Top Packer Depth Wt. Pipe Run Bottom Packer Depth Chlorides ppm System LCM Total Depth Blow Description 20 %gas 50%oil %water %mud Rec %oil %water %mud 45 %oil 5 %mud Feet of %water Feet of %oil Rec %water %mud Feet of Z/cos %gas %oil Rec %water %mud Rec Total 26410 —°F Chlorides <u>−</u> Gravity ppm 1450 (A) Initial Hydrostatic T-On Location /7/10 T-Started (B) First Initial Flow 250 Jars T-Open (C) First Final Flow Safety Joint 75 T-Pulled O Circ Sub 50 (D) Initial Shut-In (E) Second Initial Flow ☐ Hourly Standby Comments (F) Second Final Flow Mileage 204 316.20 (G) Final Shut-In ☐ Sampler (H) Final Hydrostatic ☐ Straddle ☐ Ruined Shale Packer

Approved By Our Representative Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the festults of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

☐ Shale Packer

☐ Extra Packer

□ Day Standby

☐ Accessibility

☐ Extra Recorder

Sub Total 2141.20



NOTES

Company: Palmer Oil, Inc.

Lease: Willis 23-5

Field: Willis

Location:NE-NW-SE-NE (1600' FNL& 700' FEL)

Sec: <u>23</u> Twsp:<u>32S</u> Rge:<u>37W</u>

County: Stevens State: Kansas

KB:3120' GL:3107'

API #:15-189-22825-00-00

Contractor: Duke Drilling Inc. (Rig #9)

Spud:<u>11/20/2013</u> Comp:<u>12/01/2013</u>

RTD:<u>6500'</u> LTD:<u>6475'</u>

Mud Up: 4600' Type Mud: Chemical

Samples Saved From: <u>4700' to RTD</u>
Drilling Time Kept From: <u>4100' to RTD</u>
Samples Examined From: <u>4700' to RTD</u>
Geological Supervision from: <u>4700' to RTD</u>

Geologist on Well: Wyatt Urban

Surface Casing: 8 5/8@ 1700'

Electronic Surveys: Logged by Pioneer Energy Services, DIL, CNL/CDL, MEL

PALMER OIL, INC. WELL COMPARISON SHEET

	DRILLING WELL			COMPARISON WELL				COMPARISON WELL					
	Palmer Oil,Willis 23-5 NE-NW-SE-NE				EOG RESOURCES-WILLIS 23-2 C-N2-SW-NE				EOG RESOURCES Willis 23-2 S2-NE-NE-SE				
		1				23-32-37				23-32s-37W			
	23-32-37				Structural			Structural					
	3120	3120 KB			3116	3116 KB R		Relationship		3119 KB		Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	
Topeka										3119	-3119		
Heebner													
B. Heebner	4159	-1039			4162	-1046	7		4160	-1041	2		
Lansing	4288	-1168			4283	-1167	-1		4275	-1156	-12		
Marmaton	4948	-1828	4966	-1846	4962	-1846	18	0	4967	-1848	20	2	
Cherokee	5150	-2030	5168	-2048					5167	-2048	18	0	
Morrow	5645	-2525	5639	-2519	5630	-2514	-11	-5	5634	-2515	-10	-4	
St. Gen	5970	-2850	5977	-2857									
St. Louis	6288	-3168	6298	-3178	6300	-3184	16	6	6293	-3174	6	-4	
St. Louis B	6355	-3235	6361	-3235									
RTD	6500	-3380			6500				6500				
LTD	6475	-3355											





Palmer Oil

3118 N Cummings Rd Garden City, Ks 67846

ATTN: Wyatt Urdan

23-32-37 Stevens, Ks

Willis # 23-5

Job Ticket: 54666 DST#:1

Test Start: 2013.11.29 @ 18:36:02

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 22:16:02

Time Test Ended: 08:05:02

Interval: 6295.00 ft (KB) To 6375.00 ft (KB) (TVD)

Total Depth: 6375.00 ft (KB) (TVD)

St Louis

7.88 inches Hole Condition: Poor Hole Diameter:

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane McBride

Unit No: 55

Reference Elevations: 3120.00 ft (KB)

3109.00 ft (CF)

11.00 ft KB to GR/CF:

Serial #: 6771 Inside

Press@RunDepth: 1010.90 psig @ 6296.00 ft (KB)

Start Date: 2013.11.29 End Date: 2013.11.30 Start Time: 18:36:02 End Time: 07:44:02

8000.00 psig Capacity: Last Calib.: 2013.11.30 2013.11.29 @ 22:14:17 Time On Btm:

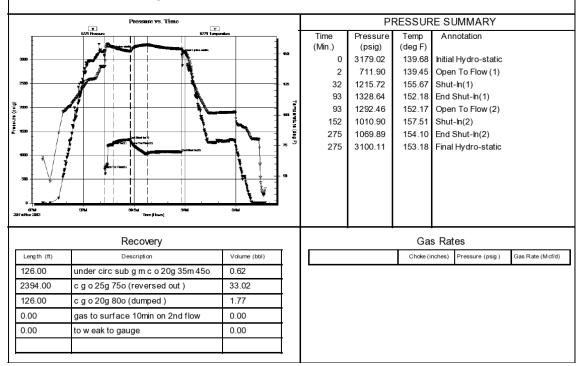
Time Off Btm: 2013.11.30 @ 02:49:17

TEST COMMENT: Slide tool 40' to bottom B.O.B. @ open

8" return blow

B.O.B in 4 1/2 min.G.T.S. in 10 min to w eak to gauge

Bled off throughout shutin





Lmst fw<7 Lmst fw7>



DST BST Int

DST alt

II tail pipe

Core

shale, gry Carbon Sh



shale, red

ACCESSORIES

FOSSIL

♦ Oolite

OTHER SYMBOLS

Oil Show

- Good Show
- Fair Show
- Poor Show
- O Spotted or Trace
- O Questionable Stn

Curve Track #1

- D Dead Oil Stn
- Fluorescence
- * Gas

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

TG, C1 - C5 Total Gas (units)

ROP (min/ft) als Gamma (API)

