

Confidentiality Requested:

Yes No

equested: KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1244684

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:			F	eet from North /	South Line of Section
City: Stat	te: Zip:	+	F	Feet from East /	West Line of Section
Contact Person:			Footages Calculated from	Nearest Outside Section	Corner:
Phone: ()				w □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:	\	Nell #:
New Well Re-E	Entry [Workover	Field Name:		
	_	_	Producing Formation:		
☐ Oil ☐ WSW	SWD	SIOW	Elevation: Ground:	Kelly Bushing	g:
☐ Gas ☐ D&A	☐ ENHR	SIGW	Total Vertical Depth:	Plug Back Total	Depth:
☐ OG	GSW	Temp. Abd.	Amount of Surface Pipe S	•	·
☐ CM (Coal Bed Methane) ☐ Cathodic ☐ Other (Core,	Fundado):		Multiple Stage Cementing Collar Used? Yes No		
	,				
If Workover/Re-entry: Old Well Info					
Operator:				cement circulated from:	
Well Name:			feet depth to:	w/	sx cmt.
Original Comp. Date:	Original Tota	al Depth:			
Deepening Re-perf.	Conv. to ENI	HR Conv. to SWD	Drilling Fluid Manageme		
Plug Back	Conv. to GS\	N Conv. to Producer	(Data must be collected from	the Reserve Pit)	
Commingled	Permit #		Chloride content:	ppm Fluid volum	e: bbls
Dual Completion			Dewatering method used:		
SWD			Location of fluid disposal i	if hauled offsite:	
ENHR	Permit #:				
GSW	Permit #:				
				License #:	
Spud Date or Date Reac	ched TD	Completion Date or	QuarterSec	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 II Approved by: Date:

Page Two



Operator Name:			L	ease Name: _			Well #:	
Sec Twp	S. R	East We	est C	County:				
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres	sures, whether sh	ut-in pressur	e reached stati	c level, hydrosta	tic pressures, bott		
Final Radioactivity Lo files must be submitted					gs must be ema	iled to kcc-well-log	gs@kcc.ks.go	. Digital electronic log
Drill Stem Tests Taker (Attach Additional		Yes	No	L		n (Top), Depth an		Sample
Samples Sent to Geo	logical Survey	Yes	No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes Yes	No No					
List All E. Logs Run:								
		(CASING REC	ORD Ne	w Used			
		· ·		ıctor, surface, inte	ermediate, producti		T	
Purpose of String	Size Hole Drilled	Size Casin Set (In O.D		Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADD	ITIONAL CEN	MENTING / SQL	JEEZE RECORD			
Purpose:	Depth Top Bottom	Type of Cem	ent #	# Sacks Used Type and Percent Additives				
Perforate Protect Casing	100 20111111							
Plug Back TD Plug Off Zone								
1 lag on zono								
Did you perform a hydrau	ulic fracturing treatment	on this well?			Yes	No (If No, ski)	o questions 2 ar	nd 3)
Does the volume of the to		•				_	o question 3)	(" 100 ")
Was the hydraulic fractur	ing treatment information	on submitted to the c	hemical disclo	sure registry?	Yes	No (If No, fill o	out Page Three	of the ACO-1)
Shots Per Foot		ION RECORD - Bri Footage of Each Int				cture, Shot, Cement		d Depth
	, ,				,		,	
TUBING RECORD:	Size:	Set At:	Pa	acker At:	Liner Run:			
						Yes No		
Date of First, Resumed	Production, SWD or Ef		cing Method: owing	Pumping	Gas Lift C	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls. G	as Mcf	Wate	er Bl	ols. G	ias-Oil Ratio	Gravity
DIODOCITI	ON OF CAS:		, 4 CT - 1		TION:		DRODUCTIO	AN INTEDVAL.
Vented Solo	ON OF GAS: Used on Lease	Open Ho		IOD OF COMPLE \Box		nmingled	PHODUCIIC	ON INTERVAL:
	bmit ACO-18.)	Other (S	necify)	(Submit		mit ACO-4)		

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	Dyer-Tammen 1
Doc ID	1244684

Tops

Name	Тор	Datum
Base Anhy.	1047	(+958)
Topeka	2994	(-989)
Heebner	3234	(-1229)
Toronto	3250	(-1245)
Brown Lime	3304	(-1299)
Lansing	3318	(-1313)
ВКС	3531	(-1526)
Cong.	3564	(-1559)
Cong. Sd.	3592	(-1587)
Reagan Se.	3604	(-1599)
LTD	3737	(-1732)



PO Box 93999 Southlake, TX 76092

Voice:

(817) 546-7282 (817) 246-3361

Fax:

Bill To:

Palomino Petroleum, Inc. 4924 SE 84th St. Newton, KS 67114-8827

RECEIVED OCT 2 0 2014 INVOICE

Invoice Number: 146274
Invoice Date: Oct 7, 2014

Page: 1

Federal Tax I.D.#: 20-8651475

Customer ID	Field Ticket#	Payment Terms Net 30 Days	
Palo	63996		
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	Oct 7, 2014	11/6/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELLNAME	Dyer Tammen #1		
150.00	CEMENT MATERIALS	Class A Common	17.90	2,685.00
282.00	CEMENT MATERIALS	Gel	0.50	141.00
1,467.00	CEMENT MATERIALS	Chloride	1.10	1,613.70
400.00	CEMENT MATERIALS	65/35/6% Gel Blend	19.88	7,952.00
615.51	CEMENT SERVICE	Cubic Feet Charge	2.48	1,526.46
448.29	CEMENT SERVICE	Ton Mileage Charge	2.75	1,232.80
1.00	CEMENT SERVICE	Surface	2,213.75	2,213.75
17.00	CEMENT SERVICE	Pump Truck Mileage	7.70	130.90
1.00	CEMENT SERVICE	Manifold Rental	275.00	275.00
17.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	74.80
1.00	EQUIPMENT SALES	8-5/8 Rubber Plug	131.00	131.00
1.00	EQUIPMENT SALES	8-5/8 AFU Insert	447.00	447.00
1.00	EQUIPMENT SALES	8-5/8 Saw Tooth Shoe	496.00	496.00
1.00	CEMENT SUPERVISOR	Charles Kinyon		
1.00	CEMENT SUPERVISOR	Kevin Eddy		
1.00	OPERATOR ASSISTANT	Marlyn Spangenberg		
1.00	EQUIPMENT OPERATOR	Daniel Casper		

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

\$ 3,783.88

ONLY IF PAID ON OR BEFORE
Nov 6, 2014

	1
Subtotal	18,919.41
Sales Tax	828.14
Total Invoice Amount	19,747.55
Payment/Credit Applied	
TOTAL	19,747.55

ALLIEU OIL & GAS SERVICES, LLC

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092

SERVICE POINT:

GratBend KS

DATE 10-07-14	SEC.	TWP.	RANGE /6	CALLE	OOUT	ON LOCATION	JOB START	JOB FINISH
Dyer	WELL#	1		1 26		130 Pm	COUNTY	STATE KS
OLD OR NEW (Cir		1	LOCATION Alber	<u> 7 22</u>	South	12 west	Rush	1 85
V-1-12-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		~ /11 >		·				
CONTRACTOR F			<u>၂</u> ၄	OW	/NER			
TYPE OF JOB SUBHOLE SIZE 121/2			1. 00 110					
			1092.44		MENT			_
CASING SIZE 95 TUBING SIZE	28		TH /0 35-00	_ AM	IOUNT OR	DERED YOUSES	65/35+6%	+3% CC
DRILL PIPE		DEF		/১৫	SXS CIAS	5 D+3% CC +	2% Ge/	
TOOL		DEP						
PRES. MAX		DEF				. 50	- 63	09
MEAS. LINE			IIMUM DE JOINT		MMON	100		5.682.0°
CEMENT LEFT IN	CSG Z		DEJOINI		ZMIX		@	
PERFS.	<u> </u>	2-04		_ GE		282	_@ <u>.5</u> 0	141.00
DISPLACEMENT	12 25	Frech	111A			€. 1467	<u> @ 1.10</u>	1.613.70
DIOI DACEIVIEIVI			HAU	AS		- 1551151	_ @	C A
	EQU	IPMENT				5/35+676		7.957.00
Charles Kery	يدرُ	Keuis	Bruneard	<u>~~</u>	<u> 3%</u>			12.391.7
		er <u>Keui</u>	NEddy				20%	2.478.
#517/597 H	HELPER 4	JAYNE D	AUS/MAYIANS	ANGENTE	ce		@	
BULK TRUCK			• •				@	
# 870/844 I	DRIVER	DAN CA	5De6					
BULK TRUCK			•			Seri		
# 6 a 3	DRIVER	TONY A	letaneto		NIDI INIC I		@	
		,				015.51 6.37 X 17 Y	_@ <u>Z.48</u>	
	DEA	MARKS:		17111	LEAGE A	e·51 × 11 ×	2.75	1.232.80
an Location), A Riq Ran 850 D and Bloke Circ 5 Ahead - Miv 40	1035.000 W/Rig	ft casion	Orop BAll, Pup	D -	PTH OF JC)R		
ISO SXS CLASS A 3	3% CC	2% Gel	SHUT DOUN RE		MPTRUCE	CHARGE	2213.25	
Plug, Displace	63.25	BBK Erc	sh H20 - LANO		TRA FOOT		@	
Plug Cement						40m 17	_ @ 	130,90
7			7		NIFOLD _		@ 275.00	
				1VI/-		Um 17	@ 7 .40	74.80
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CHARGE TO: PAL	000000	Potra	10					
		16110	iean				A TOTAL	5.453.7
STREET							1000 200	41.090.79
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						PLUG & FLOA	T EQUIPMEN	T
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MANN	you	,		ì.Ri	abber 1	21 kg	_@ <u>131.약</u>	131.00
				LA	fu ins	sert	@ 447.00	447.00
To: Allied Oil & C	as Servi	ces, LLC.		LS	AW Toot	h shoe	@ <u>५५८.∞</u>	496.00
You are hereby red			enting equipment				@	
and furnish cemen				1 <u>46</u> 4	wan + be	ifatd	@	
contractor to do w				•				
				5			TOTAL	1.074.09
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contractor. I have					LES TAX (If Any)	200 70	~ ~ 1, 5
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SIGNATURE	p	Uf 1	Kosa			15.13	5. 53	



PO Box 93999 Southlake, TX 76092

Voice: Fax: (817) 546-7282 (817) 246-3361

Bill To:

Palomino Petroleum, Inc. 4924 SE 84th St.

Newton, KS 67114-8827

INVOICE

Invoice Number: 146754

Invoice Date: Oct 29, 2014

Page: 1

Federal Tax I.D.#: 20-8651475

Customer ID	Field Ticket #	Payment Terms Net 30 Days	
Palo	63943		
Job Location	Camp Location	Service Date	Due Date
KS1-09	Great Bend	Oct 29, 2014	11/28/14

Quantity	Item		Description	Jnit Price	Amount
1.00	WELLNAME	Dyer Tammes #1	10 martin (10 martin (
1.00	CEMENT SERVICE	Gas Kill		2,600.47	2,600.47
17.00	CEMENT SERVICE	Pump Truck Mileage		7.70	130.90
17.00	CEMENT SERVICE	Light Vehicle Mileage		4.40	74.80
1.00	CEMENT SUPERVISOR	Charles Kinyon			
1.00	OPERATOR ASSISTANT	Kevin Weighous			
		Subtotal			2 806 17

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

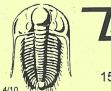
\$ 280.62

ONLY IF PAID ON OR BEFORE
Nov 28, 2014

Subtotal	2,806.17
Sales Tax	172.58
Total Invoice Amount	2,978.75
Payment/Credit Applied	
TOTAL	2,978.75

ALLIED OIL & GAS SERVICES, LLC 063943 Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092				SERVICE POINT: <u>great</u> Bend			
10-29-19 DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START 12:30pn	JOB FINISH
Dyes tammen 1		,			10:30 am	COUNTY	STATE
LEASE	WELL#	/	LOCATION Heges		N to DE	COUNTY	STATE OF THE STATE
OLDOR NEW (Ci	rcle one)		In 5 chite	-			
			revice	OWNER see	me		
TYPE OF JOB JA	es ru						
CASING SIZE		T.I		CEMENT			
TUBING SIZE 2	3/4		PTH PTH <i>35 </i>	_ AMOUNT OR	DERED		
DRILL PIPE	-8		PTH 02 75	•			
TOOL			PTH	-			
PRES. MAX			NIMUM	- COMMAGNI			
MEAS. LINE	***************************************		OE JOINT	. COMMON			
CEMENT LEFT IN	CSG.		OCJOHYI	GEL			
PERFS.							
DISPLACEMENT	***************************************			. COLORIDE _			
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# L	DRIVER			HANDLING		@	
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	RE	MARKS:					
Good to Tal	in .	792/n 2/7	alre pump 14.5	-			
BB1 H20 Na	Tent 7	to Grand	December 110	•			
shelt down	I Rel	a se 7	rell was dead				
Pelease Buche	· + c	ro ou	It of hole w/	,	2022		
tulrne			7 7 7 7 7	DEPTH OF JO PUMP TRUCK			J 7
		***************************************		EXTRA FOOT		<u> </u>	1
			71.	MILEAGE_H		_@ 	
				MANIFOLD _			130.90
					vm 17=	@ 4.40	74.80
	1		Λ.				11.00
CHARGE TO:	Palon	nono 1	Petropeum_				
		·					2 841 17
STREET						TOTAL	2.806.1°
CITY	ST.	ATE	ZIP		1	ADDIONO S	280.62
O111	317	11 L	ZIP	Į.	PLUG & FLOAT	EOUIPMEN	T
							-
						_@	
				****		_@	
To: Allied Oil & G						_@	
You are hereby req	uested to	rent cem	enting equipment			_@	
and furnish cemen	ter and h	elper(s) to	assist owner or	***************************************		_@	
contractor to do we	ork as is	listed. Th	ne above work was				
done to satisfaction	and sup	ervision	of owner agent or			TOTAL Disc 09	_5_
contractor. I have	read and	understar	nd the "GENERAL			Disc 09	6
TERMS AND CO	OITION	NS" listed	on the reverse side.	SALES TAX (I	f Any)		
	Δ.			TOTAL CHAP	GES 2866.	17	
PRINTED NAME_4	14/2.	u	1: Nol	101111111111111111111111111111111111111	GES <u>2806.</u> 5	62	0/10/0
TAINTED NAME_2	100	vn t	10419	DISCOUNT			DIN 30 DAYS
a.a	41	/	1 11		2.52.	5. <u>55</u>	
SIGNATURE	Len	<u></u> /_	Unsell		-, -		



RILOBITE ESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60602

Address 4924 SE 844 SE Newton AS 6714 - 8827 Co. Rep / Geo.	4/10		
Location: Sec. 2 Twp. 9	Well Name & No. Duer-Tamme Company Adomir Detroleu Address 4924 SE 844 St. A	m Irc. Elevation lewtor K5 67114-8	1000
Interval Tested 3009	19 195	1/W D-1	State KS
Anchor Length	01 0 01 0:	nge. / Co. /) 43 //	State
Top Packer Depth 36 0 4	Interval Tested 360 9 - 36 2 1	Zone Tested Ke Agan	DANO
Bottom Packer Depth	Anchor Length /2	Drill Pipe Run3595	Mud Wt. 9.25
Total Depth	Top Packer Depth 3604	Drill Collars Run	Vis62
Blow Description	Bottom Packer Depth 3609	Wt. Pipe Run	WL 10,4
Feet of DW Sqas Soil Swater	Total Depth3621	Chlorides 5800 ppm Sys	stem LCM
FFF	Blow Description IFF- BOB	IN 10 sec.	1/ 0
Rec	ISIP- SurFACE	Blow Building To 4	12 in.
Rec	FFY- BOBin	lamin.	
Rec	ASIR- BOB IN.	3mir.	
Rec	Rec 248 Feet of MCW	%gas	%oil 95 %water 5 %mud
Rec	Rec 124 Feet of Dwmcd	30 %gas 40	%oil 10 %water 20 %mud
Rec Feet of	Rec 45 Feet of Dmco	20%gas 40	%oil %water 40 %mud
Rec Total	Rec Feet of	Jomin, %gas	%oil %water %mud
(A) Initial Hydrostatic	Rec Feet of	%gas	%oil %water %mud
(B) First Initial Flow	Rec Total 417 BHT 121	Gravity API RW 350@	50 °F Chlorides 27000 ppm
(C) First Final Flow	(A) Initial Hydrostatic	Test	T-On Location /8.30
(D) Initial Shut-In	(B) First Initial Flow	Jars	T-Started / 134
(E) Second Initial Flow		Safety Joint	02:07
(F) Second Final Flow /97 Mileage Comments (G) Final Shut-In //20 Sampler (H) Final Hydrostatic /762 Straddle Ruined Shale Packer Initial Open 30 Extra Packer Extra Copies Initial Shut-In 30 Day Standby Total Final Flow Sub Total Final Shut-In OU Accessibility MP/DST Disc't Sub Total Approved By Our Representative Our Representative Comments Packer Day Standby Our Representative Our Representative Comments Ruined Shale Packer Day Standby Total Our Representative Our Representative Comments Co	(D) Initial Shut-In	☐ Circ Sub	1110
(F) Second Final Flow Mileage (G) Final Shut-In Sampler (H) Final Hydrostatic Ruined Shale Packer Initial Open Ruined Packer Initial Shut-In Extra Packer Final Flow Day Standby Final Shut-In Accessibility MP/DST Disc't Sub Total Our Representative	(E) Second Initial Flow	☐ Hourly Standby	
(G) Final Shut-In	707		
Straddle	(G) Final Shut-In		
Shale Packer	(H) Final Hydrostatic 1762		
Initial Open	2 2		
Initial Shut-In	Initial Open		
Final Flow Day Standby Total Final Shut-In Accessibility MP/DST Disc't Sub Total Approved By Our Representative	Initial Shut-In	□ Extra Recorder	Sub Total
Approved By Our Representative	Final Flow 30		Total
Approved By Our Representative/\textstart{\textstart}	Final Shut-In 60	☐ Accessibility	MP/DST Disc't
		Sub Total	06/1/1/
	Approved By	Our Representative	tard hat the
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 it equipment, or its statements or opinion concerning the results 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.	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 suff	ered or sustained, directly or indirectly, through the use of its



Palomino Petroleum Inc

12 19s 16w Rush

4924 SE 84th St Newton KS 67114-8827 Dyer-Tammen #1 Job Ticket: 60602

DST#:4

ATTN: Andrew Stenzel

Test Start: 2014.10.13 @ 18:34:00

GENERAL INFORMATION:

Time Tool Opened: 20:57:45

Time Test Ended: 01:47:00

Formation:

Reagan Sand

Deviated:

Interval:

Start Date:

Start Time:

No Whipstock: ft (KB)

Jim Svaty

Test Type: Conventional Bottom Hole (Reset)

Tester:

76

Unit No:

Reference Elevations:

2005.00 ft (KB)

1998.00 ft (CF)

Total Depth:

3609.00 ft (KB) To 3621.00 ft (KB) (TVD) 3621.00 ft (KB) (TVD)

KB to GR/CF: 7.00 ft

Hole Diameter:

7.88 inchesHole Condition: Fair

Serial #: 8289 Press@RunDepth: Outside

197.77 psig @ 2014.10.13

18:34:00

3615.00 ft (KB) End Date:

2014.10.14

Capacity: Last Calib .: gisq 00.0008

End Time:

01:47:00

Time On Btmt

2014.10.14 2014.10.13 @ 20:56:45

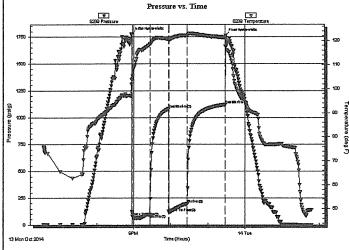
Time Off Btm:

2014.10.13 @ 23:28:30

TEST COMMENT: 30-IFP-BOB in 10sec.

30-ISIP- Surface Blow Building to 4 1/2in.

30-FFP- BOB in 1min. 60-FSIP- BOB in 3min.



	PRESSURE SUMMARY						
	Time	Pressure	Temp	Annotation			
o	(Min.)	(psig)	(deg F)				
	0	1778.51	103.70	Initial Hydro-static			
0	1	78.70	104.16	Open To Flow (1)			
n	30	95.26	118.60	Shut-In(1)			
-	60	1080.97	120.64	End Shut-In(1)			
Temperature (deg F,	61	115.92	120.26	Open To Flow (2)			
raturo	90	197.77	122.17	Shut-In(2)			
(deg	151	1120.03	121.33	End Shut-In(2)			
, J	152	1762.00	121.04	Final Hydro-static			
)							
		:					

Recovery

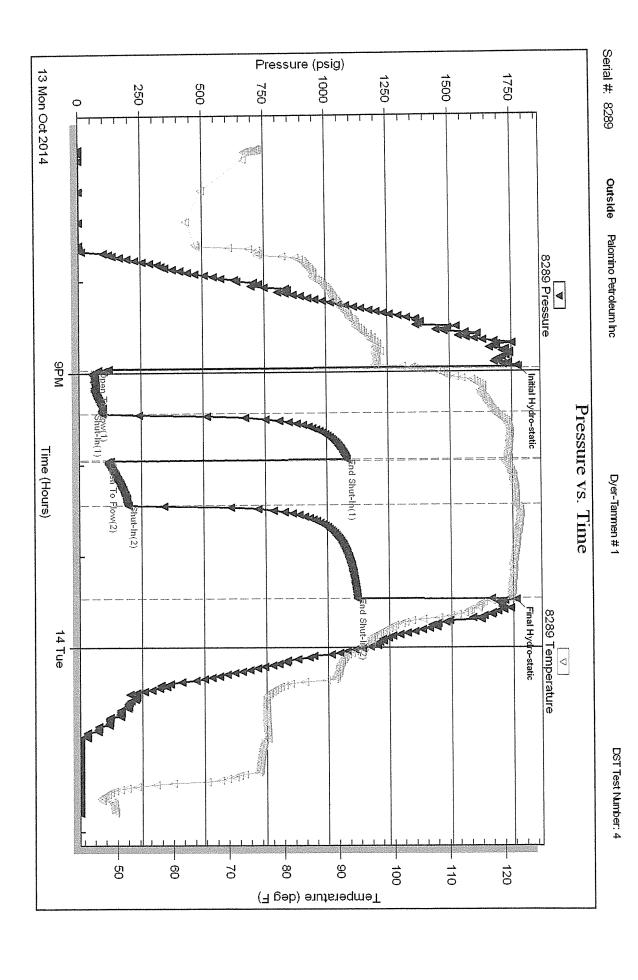
Length (ft)	Description	Volume (bbl)
248.00	MCW 5%m 95%w	3.48
124.00	GWMCO 30%g 10%w 20%m 40%o	1.74
45.00	GMCO 20%g 40%m 40%o	0.63
*Recoveryfrom	n itinie tests	

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

Trilobite Testing, Inc.

Ref. No: 60602

Printed: 2014.10.14 @ 01:55:31



Trilobite Testing, Inc

Ref. No: 60602

Printed: 2014.10.14 @ 01:55:31

Mud-Co / Service Mud. Inc.

100 S. Main St., Suite #310, Wichita, Ks. 67202 9 Report: Daily Drilling Mud Report 10/14/14 3681 Depth: Operator Contractor Rig No. Palomino Petroleum Pickrell Drilling 10 Address Address Spud Date Ria Rig 10/02/14 Report for Mr. Report for Mr. Section Twp Range Nick Gerstner Mike Kern 12 **19S** 16W Well Name & No County State Dyer Tammen #1 Rush Kansas Operation Casing Mud Volume (BBL) Circulation Data Present Activity Hole Liner Size Stroke Opposite Drill Pipe Pump Pressure 1020 drilling 8 5/8 313 400 in. at 14 203 6 700 Bit Size (in.) No Intermediate Total Circulating Vol. Est.Hole/DS capacities Opposite Drill Collars Pump Make 7 7/8 2 713 8.5 2.4747 in. at 369 Emsco Drill pipe sz Туре Production / Liner Volume in Storage BBI/ Strk Strk / Min. Bottoms Up (Min.) Pump Model 4 1/2 XH in. at 0 0.137 60 32 D-375 Drill Collar size Drilling mud type BBI /Min GAL/Min. System Total (Min) Critical GPM DC/DP 6 1/4 503 chemical 8.2 345 87 260 337 Sample from Flowline _x_ or Pit_ Daily Mud Cost Cumulative Mud Cost Flowline Temperature Mud Properties 590.65 11,892.35 MUD PROPERTIES SPECIFICATIONS Time Sample Taken 8:25 AM Mud Wt.(lbs/gal.) Viscosity Filtrate LCM Depth (Ft.) 3,681 9.0 - 9.446-50 8-10.0cc as needed Weight (lb/gal.) 9.0 Mud Gradient (psi/ft.) 0.468 Suggest... Funnel Viscosity (Sec/qt. API) 68 Plastic Viscosity cp 16 Run small stream of water at flowline while drilling to control Yield Point (lb/100 sq.ft.) 13 mud wt. 9.0-9.4 #/gal. Gel Strength 10 sec/10 min. 10/59 рН Maintain 46-50 sec/qt. viscosity with the following premix 10.0 Filtrate API (ml/30 min.) 100 bbls fresh water 10.8 Cake Thickness 32nd 1 1 Soda Ash Alkalinity, Mud (Pm) 2 Caustic *Add premix after DST #2, then as Alkalinity, Filtrate (Pf/Mf) .44/-1 1/2 sx Lignite needed for vis or to control mud wt. Chloride Content, ppm 6.500 1/2 sx Pac Calcium. ppm 20 Gel f/ 50 vis Jet and add over 1 1/2 hours Sand Content (% by Vol) Tr Gel only as needed, no need for extremely high viscosity Solids Content (% by Vol.) 4.7 Oil Content (% by Vol.) 0.0 LCM as needed with c/s hulls Water Content (% by Vol.) 95.3 Tr LCM, lbs/bbl. Tourly while drilling: 1 sx Caustic Reynold's #DP 2,067 1/2 sx Lianite Reynold's # DC 2,946 *Add tourly at chemical bbl, add to system over 2 hours ECD lb/gal 9.54 every tour that no premix is added DRILLING MUD INVENTORY Products: Prior Day Delivery On Hand Used Cost Trip slowly and don't shake pipe, break circulation on all TIH w/ bit 115 95 20 368.00 Premium Gel 6 6 Circulate hole clean prior to all trips and keep hole full Lime 14 13 25.85 Soda Ash 1 5 3 2 132.30 Divert all DST recovery to reserve pit Caustic Soda 5 4 Lignite 28.60 58 56 If viscosity begins to climb, do not run an excessive amount of C/S Hulls 2 2 water to thin back, jet volume and clean a pit and add above Drill Pak 3 3 premix with Gel f/ 45-50 sec/qt. viscosity 2 2 Poly Plus Florige 2 2 Sapp Please keep all material covered as needed... Thanks! Barite MilGuard Mud-Co / Service Mud Representative Home Address Telephone Number **Jason Whiting** Great Bend, Kansas 620-792-4544 Warehouse Location Telephone Number Cell: 620-282-0556 Hays, Kansas 785-621-4232



1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60601

Well Name & No. Duer - Tamme	N #/	Test No.	3 D	ate 10-13-	14
Company PAlomino Petroleur	m, INC.	Elevation	2005	кв <u> 1998</u>	3 GL
Address 4924 5E 84th St	NewTon	KS, 6711	4-882	7	
Co. Rep/Geo. Andrew Stenz	zel .	Rig Pic	Krell	#10	
Location: Sec	Rge. 16 W	_co. Ku	Sh	StateK	5
Interval Tested 3531-3607	Zone Tested	Conglome	rate 5	And.	
Anchor Length	Drill Pipe Run _	0	Muc	Wt. 9.25	
Top Packer Depth 3526	Drill Collars Run	-0	Vis	62	
Bottom Packer Depth 353/	Wt. Pipe Run	0	WL	10.4	1
Total Depth 3607	Chlorides	5800 ppm	System LCM	1 0	1/1
Blow Description FSIP- Bled	FF in 17.	min WeAl	1 Jul FAC	eBlow	
IFP BOB,	N 40 sec				
ISIP- Bled of Fin	14mir. W	lest Surfa	ace 13/8	W	
FFF- BOBIN:	3seci				
Rec Feet of		%gas	%oil	%water /C	70 %mud
Rec Feet of		%gas	%oil	%water	%mud
RecFeet of		%gas	%oil	%water	%mud
RecFeet of	11 2	%gas	%oil	%water	%mud
RecFeet ofST5	4min	%gas	%oil	%water	%mud
Rec Total BHT	Gravity	API RW@	°F Ch	10 -00 5 -	ppm
(A) Initial Hydrostatic	Test		T-On Locati	on 03.3	15
(B) First Initial Flow	🍯 Jars		T-Started _	04.5	5
(C) First Final Flow	Safety Joint		T-Open	10'10	2
(D) Initial Shut-In	☐ Circ Sub		T-Pulled T-Out	12:11	
(E) Second Initial Flow	☐ Hourly Standby _			12.10	
(F) Second Final Flow	Mileage				
(G) Final Shut-In	☐ Sampler				
(H) Final Hydrostatic	☐ Straddle			Shale Packer	
20	☐ Shale Packer			Packer	
Initial Open	☐ Extra Packer			opies	
Initial Shut-In	☐ Extra Recorder _				
Final Flow	☐ Day Standby		Total	The	
Final Shut-In 60	☐ Accessibility		MP/DST D	Disc't	A
	Sub Total	1) 3	and for the second	<u></u>
Approved By		r Representative	My	/pa//,	/
Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or equipment, or its statements or opinion concerning the results of any test, tools to	personnel of the one for whom ost or damaged in the hole shall	a test is made, or for any loss be paid for at cost by the party	suffered or sustained, or for whom the test is m	directly or indirectly, throug nade.	h the use of its



P.O. Box 362 • Hays, Kansas 67601 • (785) 625-4778

F	Alo	mind	bletos	leu.	m
			OPERATOR		

GAS VOLUME REPORT

and the state of t

Dyer-lammen #1
WELL NAME AND NO.

DST NO

Min.	Ins. of Water PSIG	Orifice Size	CF/D	Min.	Ins. of Water PSIG	Orifice Size	CF/D
10	70	1	2426.400				
	0 1					Va.	
	Lnd	Open.				Net per la	
10	80	1	2713.888			232	
10	75	1	2570.144			745,00	
10	73	1	25/2.646				
10	73	1	25/2,646				
10	46	1	Guage's Plugge	ed	and the state of t	Settle of the Se	
	4		90			#30-	
						-chadain	
						1/4/2004	
						MANY,	
						, aya.	
						A.	
					The state of the s	de l	
			V		The state of the s	dia di	
						1	
						The state of the s	

Remarks:



GAS RATES

Palomino Petroleum Inc

12 19s 16w Rush

4924 SE 84th St New ton KS 67114-8827

Dyer-Tammen # 1

Job Ticket: 60601

DST#:3

ATTN: Andrew Stenzel

Test Start: 2014.10.13 @ 04:55:00

Gas Rates Information

Temperature:

59 (deg F)

Relative Density:

0.65

Z Factor:

8.0

Gas Rates Table

Flow Period	⊟apsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	1.00	70.00	2426.40
2	10	1.00	80.00	2713.89
3	10	1.00	75.00	2570.14
4	10	1.00	73.00	2512.65
5	10	1.00	73.00	2512.65



Palomino Petroleum Inc

12 19s 16w Rush

Dyer-Tammen #1

4924 SE 84th St New ton KS 67114-8827

Job Ticket: 60601

DST#:3

ATTN: Andrew Stenzel

Test Start: 2014.10.13 @ 04:55:00

GENERAL INFORMATION:

Time Tool Opened: 07:13:00

Time Test Ended: 12:16:00

Formation:

Conglomerate Sand

Deviated:

Whipstock

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester:

KB to GR/CF:

Jim Svaty

Unit No: 76

2005.00 ft (KB)

Interval: Total Depth:

3531.00 ft (KB) To 3607.00 ft (KB) (TVD)

3607.00 ft (KB) (TVD)

Hole Diameter:

7.88 inchesHole Condition: Fair

Reference Elevations:

1998.00 ft (CF)

7.00 ft

Serial #: 8289 Press@RunDepth: Outside

414.03 psig @

3541.00 ft (KB) End Date:

2014.10.13

Capacity: Last Calib.: 8000.00 psig

Start Date: Start Time:

2014.10.13 04:55:00

End Time:

12:16:00

Time On Btm:

2014.10.13 2014.10.13 @ 07:10:15

Time Off Btm:

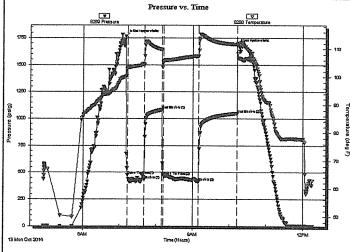
2014.10.13 @ 10:12:30

TEST COMMENT: 30-IFP-BOB in 40sec.

30-ISIP- Bled off in 14min. Weak Surface Blow

60-FFP- BOB in 3sec.

60-FSIP- Bled off in 17min. Weak Surface Blow



	PRESSURE SUMMARY				
	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
	0	1764.88	100.15	Initial Hydro-static	
	3	474.69	103.34	Open To Flow (1)	
	31	433.21	104.48	Shut-In(1)	
=	59	1082.46	109.82	End Shut-In(1)	
ompei	62	466.74	105.42	Open To Flow (2)	
Temperature (deg F	120	414.03	107.50	Shut-In(2)	
(deg	182	1049.98	111.72	End Shut-In(2)	
٣	183	1679.28	111.73	Final Hydro-static	

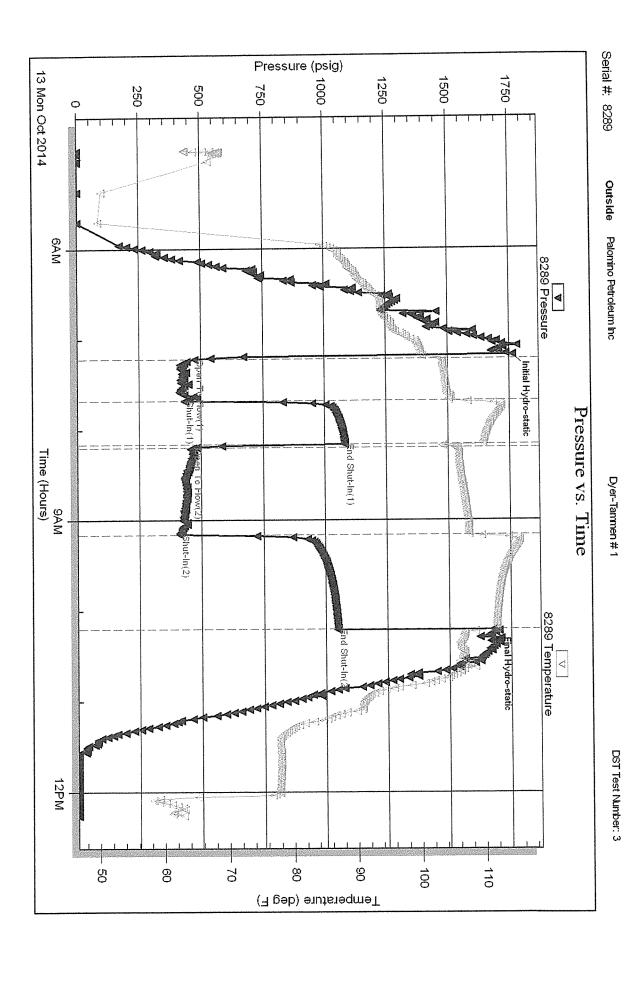
Recovery

Volume (bbl)
1.57
_

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	70.00	2426.40
Last Gas Rate	1.00	73.00	2512.65
Max. Gas Rate	1.00	80.00	2713.89

Printed: 2014.10.13 @ 12:23:59



Trilobite Testing, Inc

Ref. No: 60601

Printed: 2014.10.13 @ 12:23:59

Mud-Co / Service Mud. Inc.

Daily Drilling	Mud Don	ort							Б.	10/13/14		260
Daily Drilling Operator	миа кер	OIL				Contractor	***************************************		Date:	10/13/14 Rig No.	_ Depth	3607
Pa	lomino	Petrol	eum			Pickrell Drillin	ng			. ug	10	
Address Rig	~					Address Rig				Spud Date	1/02/44	
Report for Mr.						Report for Mr.				Section	0/02/14 Twp	Range
	ck Gers	tner	**			Mike Kern				12	195	16W
Well Name & No.	er Tam	men #	1			County Rush			State	Kansas		
Operation	er rann	iiicii w	Casing		Mu	d Volume (BBL)				irculation Data		
Present Activity DST 3		8 5/8	i= =4	1020	Hole 307	Pits 400	Liner Size 6	Stroke 14	Opposi	ite Drill Pipe 203	Pump Press	ure
Bit Size (in.)	No	0 3/0	in. at Intermediate	1020	Total Circulati		Est.Hole/DS o	1	Opposi	ite Drill Collars	Pump Make	
7 7/8	2		in. at			707	8.5	2.4747		369		isco
Drill pipe sz 4 1/2	Type XH	P	roduction / Line in. at	er	Volume in St	orage O	BBI/ Strk 0.137	Strk / Min.	Bottom	s Up (Min.) 32	Pump Model	
Drill Collar size		ling mud typ					BBL./Min.		System	n Total (Min)	Critical GPM	375 DC/DP
	503		chemica	1		-	8.2	345		86	261	334
Sample from Flow		Pit _x_		Maral David		Daily Mud Cost	00/	0.05	Cumu	lative Mud Cost	44.0	04.70
Flowline Temperat	ture			Mud Prop	erties			PROPERTIES	S SDEC	TEICATIONS	77,3	01.70
Time Sample Ta	aken		8:10 AM			Mud Wt.(lbs/gal.)		osity	00, 20	Filtrate	L	СМ
Depth (Ft.)			3,607	***************************************		9.0-9.4	46	-50		8-10.0cc	as n	eeded
Weight (lb/gal.)			9.25			0						
Mud Gradient (p		DIV	0.481			Suggest						
Funnel Viscosity Plastic Viscosity		(PI)	62 17		+	Run small strea	m of wate	ar at flowl	ina u	vhile drilling t	o control	
Yield Point (lb/100 sq.ft.)					 	mud wt. 9.0-9.4	ville drilling to	Journa				
Gel Strength 1		nin.	11/65				mgan.					
рН						Maintain 46-50 sec/qt. viscosity with the following premix						
	Filtrate API (ml/30 min.) 10.4					100 bbls fresh water						
Cake Thickness			1 -		-	1 Soda Ash 2 Caustic *Add premix after DST #2 then as						
Alkalinity, Mud (Alkalinity, Filtrate		-	.55/-			2 Caustic *Add premix after DST #2, then as 1 1/2 sx Lignite needed for vis or to control mud wt.						+
Chloride Conten			5,800			1/2 sx Pac	110	nocaca	ioi vi	3 Of to contic	n mua vv	•
Calcium. ppm			20			Gel f/ 50 vis				over 1 1/2 ho		
Sand Content (9			Tr			Gel only as need	ded, no n	eed for e	xtrer	nely high visc	cosity	
Solids Content (%)			6.8 0.0			LCM as needed	with o/o	hullo				
Oil Content (% b			93.2			LOW as needed	WILLI C/S	iulis				
LCM, lbs/bbl.	70 by 101.7		0			Tourly while drill	ina:	1 sx Cau	ıstic			
Reynold's #DP			2,090					1/2 sx Li	gnite			
Reynold's # DC			2,924			*Add tourly at ch	nemical b	bl, add to	sys	tem over 2 ho	ours	
ECD lb/gal	DRILLING N	ALID INIVE	9.81			every tour that n	o premix	is added				
		elivery	On Hand	Used	Cost	Trip slowly and o	don't sha	ke pipe. h	reak	circulation		
	7					# on all TIH w/ bit		٠٠,٥٠, ١٥	. 50/1	J.		
Premium Gel	145		115	30	552.00						,	
.ime	<u>6</u>		6 14	1	2F 0F	# Circulate hole cl	ean prior	το all trip	s an	a keep hole f	ull	
oda Ash Caustic Soda	8		5-	3	25.85 198.45	Divert all DST re	ecovery to	n resenue	nit			
ignite	8		5	3	85.80	Divert all Dor le	covery in) ICSCIVE	ριι			
:/S Hulls	59		58	1	17.95	If viscosity begin	s to clim	b. do not	run a	an excessive	amount	of
rill Pak	2		2			# water to thin bac	ck, jet vol	ume and	clea	n a pit and ac		
esco	3		3			# premix with Gel	f/ 45-50 s	sec/qt. vis	scosi	ty		
oly Plus	2		2			#						
lorigel cide					-	#						
app	2		2			#						
Barite						Please keep all	material o	covered a	s ne	eded Than	iks!	
MilGuard						#						
/lud-Co / Service N		entative			Home Addre					one Number		
lason Whitin	g					nd, Kansas				792-4544		
	-0556				Warehouse L Hays, Ka				releph	one Number 621-4232		



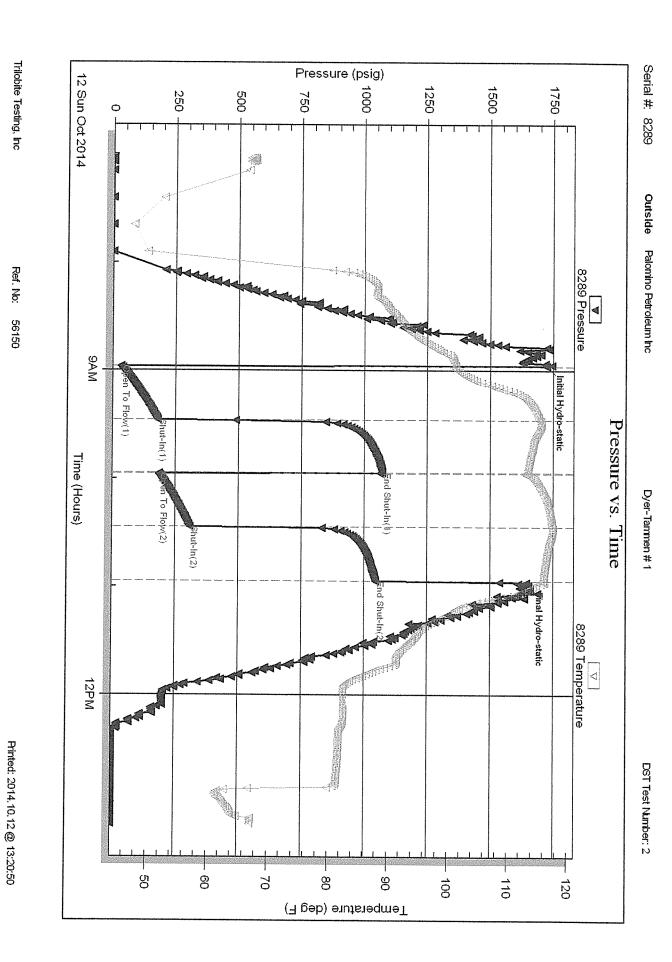
RILOBITE ESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56150

4/10					
Well Name & No. Duec - TAmm	en #1	Test No	2 Da	ite 10-13	2-14
Company (Alomino Petroleum	. INC.	Elevation	2005	(B / 1998	GL
Address 4924 SE 84th St. A	Jewton,	RS 6711	4-882	7	
0.1	ze	Rig_P	ckrell 7	10	
Location: Sec. /2 Twp. 195	Rge. /6 W	_ Co Ru	ish	State	5
Interval Tested 3448 - 350/	Zone Tested	LKC '	"エサブ"	1	
Anchor Length	Drill Pipe Run	3440	Mud	Wt. 9, 4	
Top Packer Depth 3443	Drill Collars Run	9	Vis	72	
Bottom Packer Depth	Wt. Pipe Run	4	WL	10.8	P
Total Depth3501	Chlorides 7	200 ppm	System LCN	0	
Blow Description IFP - BOB 7	J Comin,				
ISIR- SucFace	01 . 0 0	miNI			
FFR- ROBIN 11	2min.				
FSIR- NO Blow					
Rec Feet of WCM		%gas	%oil 3	%water	70 %mud
Rec 560 Feet of mcw		%gas	%oil 95	%water	5 %mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Total 670 BHT 116	Gravity	API RW 195	9 63 °F Ch	lorides 420	ppm
(A) Initial Hydrostatic 1724	Test		T-On Locati	on 06:	35
(B) First Initial Flow32	Jars		T-Started _	07:0	2
(C) First Final Flow	Safety Joint		T-Open	08:2	57
(D) Initial Shut-In	☐ Circ Sub		T-Pulled	- meters of a	-
(E) Second Initial Flow	☐ Hourly Standby _			13:1	
(F) Second Final Flow	Mileage				
(G) Final Shut-In 1046	☐ Sampler				
(H) Final Hydrostatic	☐ Straddle		-	Shale Packer	
	☐ Shale Packer	**		Packer	
Initial Open	☐ Extra Packer			opies	
Initial Shut-In	☐ Extra Recorder _			оріос	
Final Flow30	☐ Day Standby				
Final Shut-In	☐ Accessibility			Disc't	
	Sub Total			11	
Approved By	Ou	ur Representative	Muy	walny	maghasannan





Palomino Petroleum Inc

12 19s 16w Rush

4924 SE 84th St New ton KS 67114-8827

Dyer-Tammen #1 Job Ticket: 56150

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2014.10.12 @ 07:02:00

GENERAL INFORMATION:

Formation:

LKC"1&J"

Deviated:

Interval:

No Whipstock:

ft (KB)

Test Type:

Conventional Bottom Hole (Reset)

Tester: Unit No: Jim Svaty

76

Time Tool Opened: 08:57:30 Time Test Ended: 13:12:00

3448.00 ft (KB) To 3501.00 ft (KB) (TVD)

Reference Elevations:

2005.00 ft (KB)

Total Depth:

3501.00 ft (KB) (TVD)

1998.00 ft (CF)

Hole Diameter:

7.88 inchesHole Condition: Fair

KB to GR/CF:

7.00 ft

Serial #: 8289

Outside Press@RunDepth:

307.56 psig @ 2014.10.12

3450.00 ft (KB) End Date:

Capacity:

8000.00 psig

Start Date: Start Time:

07:02:00

End Time:

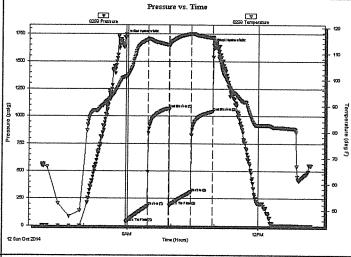
2014.10.12 13:12:00 Last Calib .: Time On Btm: 2014.10.12

Time Off Btm:

2014.10.12 @ 08:57:15 2014.10.12 @ 10:57:45

TEST COMMENT: 30-IFP- BOB in 6min.

30-ISIP- Surface Blow in 3min. 30-FFP- BOB in 10min. 30-FSIP- No Blow



		PI	RESSUF	RE SUMMARY
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1724.85	101.45	Initial Hydro-static
	1	32.68	100.79	Open To Flow (1)
	30	179.77	115.42	Shut-In(1)
ا ب	60	1072.11	113.43	End Shut-In(1)
Temperature (deg F)	60	184.60	113.09	Open To Flow (2)
ature	90	307.56	117.55	Shut-In(2)
(deg	120	1046.00	116.09	End Shut-In(2)
۳	121	1644.32	116.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	WOM 30%w 70%m	1.54
560.00	MCW 5%m 95%w	7.86
*Recoveryfromn	rultiple tests	

Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 56150

Printed: 2014.10.12 @ 13:20:49

Mud-Co / Service Mud, Inc.

Cell: 620-282-0556

100 S. Main St., Suite #310, Wichita, Ks. 67202 5 Report: **Daily Drilling Mud Report** 10/10/14 2925 Date: Operator Contractor Rig No. Palomino Petroleum Pickrell Drilling 10 Address Spud Date Rig Rig 10/02/14 Report for Mr Report for Mr. Section Range Nick Gerstner Mike Kern 12 195 16W Well Name & No. State County **Dver Tammen #1** Rush Kansas Operation Casing Mud Volume (BBL) Circulation Data Present Activity Hole Liner Size Stroke Opposite Drill Pipe Pump Pressure 1020 drilling 8 5/8 252 6 14 203 700 in. at Bit Size (in.) No Intermediate Total Circulating Vol. Est.Hole/DS capacities Opposite Drill Collars Pump Make 7 7/8 2 652 8.6 2.4747 369 in. at **Emsco** Volume in Storage Drill pipe sz Туре Production / Liner BBI/ Strk Bottoms Up (Min.) Strk / Min. Pump Model 4 1/2 n 0.137 60 D-375 in. at 26 Drill Collar size Drilling mud type RRI /Min GAL /Min System Total (Min) Critical GPM DC/DP 503 6 1/4 chemical 8.2 345 79 169 222 Sample from Flowline x or Pit Daily Mud Cost Cumulative Mud Cost 751.85 Flowline Temperature **Mud Properties** 6,008.15 MUD PROPERTIES SPECIFICATIONS Time Sample Taken 8:20 AM Mud Wt.(lbs/gal.) Viscosity LCM 2,925 9.0-9.4 Depth (Ft.) 46-50 8-10.0cc as needed Weight (lb/gal.) 8.5 Mud Gradient (psi/ft.) 0.442 Suggest ... Funnel Viscosity (Sec/qt. API) 37 Run small stream of water at flowline while drilling to control Plastic Viscosity cp 8 Yield Point (lb/100 sq.ft.) mud wt. 9.0-9.4 #/gal. Gel Strength 10 sec/10 min. 5/20 10.5 Mix the following premix, add to system over 1 1/2 hours today Filtrate API (ml/30 min.) on daylites for vis and volume 12.0 Cake Thickness 32nd 1 120 bbls fresh water Alkalinity, Mud (Pm) 2 Soda Ash 1.07/-Alkalinity, Filtrate (Pf/Mf) 1 Caustic Chloride Content, ppm 1 Lignite 3,300 Calcium. ppm 20 1 sx Pac Sand Content (% by Vol) Tr Gel as needed Solids Content (% by Vol.) 2.0 After above premix is added, maintain 46-50 sec/qt. viscosity 0.0 Oil Content (% by Vol.) Water Content (% by Vol.) 98.0 with the following premix 50 bbls fresh water/ 50 bbls pit mud LCM, lbs/bbl. 0 Reynold's #DP 3,693 2 Soda Ash *Add premix as needed for vis. add Reynold's # DC 5.385 2 Caustic ECD lb/gal 9.07 1 Lignite as needed over 1 1/2 hours DRILLING MUD INVENTORY 1/2 sx Pac Gel as needed Products: Prior Day Delivery On Hand Used 270 260 10 184.00 # LCM as needed with c/s hulls Premium Gel 6 6 Lime 25 23 51.70 # Tourly while drilling: 1 sx Caustic Soda Ash 19 17 2 132.30 1/2 sx Lignite Caustic Soda 15 *Add tourly at chemical bbl, add to system over 2 hours 15 Lignite 79 every tour that no premix is added 76 3 53.85 C/S Hulls 6 330.00 5 Drill Pak 3 Suggest short trip prior to DST #1, trip slowly and don't Desco shake pipe, break circulation on all TIH w/ bit Poly Plus Florige Circulate hole clean prior to all trips and keep hole full 2 2 Barite Please keep all material covered as needed... Thanks! MilGuard Mud-Co / Service Mud Representative Home Address Telephone Number **Jason Whiting** Great Bend, Kansas 620-792-4544 Warehouse Location

Hays, Kansas

Telephone Number

785-621-4232

Mud-Co / Service Mud, Inc.

			0, Wichit		/	AII Co						6
100 S. N	nam st., .	Juile #3 i	o, wichie	a,rs. u	202			1			Report:	6
	lling Mud F	Report				-			Date:	10/11/14	_ Depth:	3402
Operator	Palomii	no Petro	leum			Contractor Pickrell Drillin	a			Rig No.	10	
Address		10 1 0410	rcum	×		Address	g			Spud Date		
Report for M	Rig					Rig Report for Mr.	-				0/02/14	
	Nick Ge	erstner				Mike Kern				Section 12	Twp 19S	Range 16W
Well Name		mmen #	11			County Rush			State	Kanasa		
Operation	Dyel la		Casing		Mu	id Volume (BBL)				Kansas irculation Data		
Present Activi	ity CH	8 5/8		1020	Hole 289	Pits 400	Liner Size		Oppos	ite Drill Pipe	Pump Pressu	
Bit Size (in.)	No		in. at Intermediate	1020	Total Circulati		6 Est.Hole/DS o	14 capacities	Oppos	203 ite Drill Collars	Pump Make	00
7 7/8	2		in. at	****		689	8.5	2.4747		369		sco
Drill pipe sz 4 1/2	XH Type		Production / Lin	er	Volume in St	orage 0	BBI/ Strk 0.137	Strk / Min. 60	Bottom	s Up (Min.) 30	Pump Model	275
Drill Collar siz	1	Drilling mud t	in. at ype			0	BBL./Min.		Svsten	n Total (Min)	Critical GPM	375 DC/DP
6 1/4	503		chemica	a/			8.2	345		84	261	343
	Flowline _x_	_ or Pit	1			Daily Mud Cost	2.05	F 7F	Cumu	lative Mud Cost	0.00	
Flowline Ten	nperature			Mud Prop	erties			5.75 PROPERTIES	S SDE	PIEICATIONS	9,96	3.90
Time Sam	ple Taken		8:35 AM			Mud Wt.(lbs/gal.)		osity	SSFEC	Filtrate	Lo	CM
Depth (Ft.))		3,402			9.0-9.4	46	-50		8-10.0cc	as ne	eeded
Weight (lb/			9.3									
Mud Gradi	ent (psi/ft.) cosity (Sec/	-4 ADI\	0.484 62		 	Suggest						
Plastic Vis		(L. API)	16			Run small strea	n of wate	er at flowl	ine v	vhile drilling t	o control	
	(lb/100 sq.fl	t.)	14			mud wt. 9.0-9.4		or at nown	1110 V	villo arming t	o ooniioi	
	th 10 sec/1	0 min.	13/65									
pH	1 (1/00 !		9.5			Maintain 46-50	sec/qt. vis	scosity wi	ith th	e following p	remix	
	l (ml/30 min.)	10.8		 	100 bbls fres 1 SODa Ash	rı water					
	Cake Thickness 32nd 1 Alkalinity, Mud (Pm) -				1 Caustic *Add premix as needed for vis or to)		
	iltrate (Pf/M	f)	.26/-			1 1/2 sx Lign	ite	control n	nud ı	vt.		
	ontent, ppm		5,600			1/2 sx Pac		A -1-1				
Calcium. p	pm ent (% by Vo	N)	30 Tr			Gel f/ 50 vis Gel only as need	dad no n			ed over 1 1/2		
	tent (% by V		6.8			Ger Only as need	aeu, no n	eeu ioi e	XUGI	nely riigir visi	JOSILY	
	t (% by Vol.)		0.0			LCM as needed	with c/s	hulls				
	tent (% by V	ol.)	93.2			_ , , , , , , , , , , , , , , , , , , ,						
LCM, lbs/b Reynold's #			2,020			Tourly while drill	ing:	1 sx Cau				
Reynold's			2,020			*Add tourly at ch	nemical h	1/2 sx Li	griile	; tem over 2 h;	ours	
ECD lb/ga			9.88		1	every tour that n	o premix	is added	l Gyo.	10111 OVOI 2 110	<i>Jul</i> 3	
		IG MUD INVI				T						
Products:	Prior Day	Delivery	On Hand	Used	Cost	Trip slowly and o # on all TIH w/ bit	don't sha	ке ріре, п	reak	circulation		
Premium Gel	260		165	95	1,748.00							
Lime	6		6			# Circulate hole cl	ean prior	to all trip	s an	d keep hole t	full	
Soda Ash	23		15	8	206.80	The second of th						
Caustic Soda	17 15		8 8	9 7	595.35 200.20		covery to	reserve	pıt			
Lignite C/S Hulls	76		64	12	215.40		s to clim	h do not	rıın :	a hia amount	of water	to
Drill Pak	5		2	3		# thin back, jet vol	ume and	clean a p	oit ar	nd add above	premix	
Desco	3		3			# with Gel f/ 45-50	sec/qt. v	viscosity [']			•	
Poly Plus	2		2		-	# 						
Florigel Xcide						#						
Sapp	2		2			#						
Barite						₄ Please keep all i	material (covered a	as ne	ededThar	nks!	
MilGuard					_	#						
Mud-Co / Ser Jason WI		presentative			Home Addre	ss nd, Kansas				one Number 792-4544		
Onll: 000	000 0550				Warehouse	Location	Oliver and the second	*		one Number		
Cell: 620-	-282-0556				Hays, Ka	nsas			785-	621-4232		

Mud-Co / Service Mud. Inc.

Jason Whiting

Cell: 620-282-0556

100 S. Main St., Suite #310, Wichita, Ks. 67202 Report: Daily Drilling Mud Report 10/12/14 3501 Date: Depth: Operator Contractor Rig No. Palomino Petroleum Pickrell Drilling 10 Address Spud Date Rig Rig 10/02/14 Report for Mr. Report for Mr. Section Range Nick Gerstner Mike Kern 12 195 16W Well Name & No. Count State Dyer Tammen #1 Rush Kansas Operation Casing Mud Volume (BBL Circulation Data Present Activity Hole Liner Size Stroke Pump Pressure TIH w/ DST 1 8 5/8 1020 298 400 6 14 in. at 203 Bit Size (in.) Total Circulating Vol No Intermediate Est.Hole/DS capacities Opposite Drill Collars Pump Make 7 7/8 2 698 in. at 8.5 2.4747 369 Emsco Drill pipe sz Production / Liner Тур Volume in Storage BBI/ Strk Strk / Min. Bottoms Up (Min.) Pump Model 4 1/2 in. at 40 bbls 0.137 60 31 D-375 Drill Collar size Drilling mud type BBL./Min GAL/Min. System Total (Min) Critical GPM DC/DF 6 1/4 503 chemical 8.2 345 85 258 330 Sample from Flowline or Pit x Daily Mud Cost Cumulative Mud Cost 457.75 Flowline Temperature **Mud Properties** 10,421.65 MUD PROPERTIES SPECIFICATIONS 8:25 AM Time Sample Taken Mud Wt.(lbs/gal.) Viscosity LCM Depth (Ft.) 3,501 9.0 - 9.446-50 8-10.0cc as needed Weight (lb/gal.) 9.4 0.489 Suggest ... Mud Gradient (psi/ft.) Funnel Viscosity (Sec/qt. API) 72 Run small stream of water at flowline while drilling to control Plastic Viscosity cp 17 Yield Point (lb/100 sq.ft.) 13 mud wt. 9.0-9.4 #/gal. Gel Strength 10 sec/10 min. 12/65 Maintain 46-50 sec/qt. viscosity with the following premix 9.5 Filtrate API (ml/30 min.) 10.8 100 bbls fresh water Cake Thickness 32nd 1 1 Soda Ash Alkalinity, Mud (Pm) 2 Caustic *Add premix after DST #2, then as 31/needed for vis or to control mud wt. Alkalinity, Filtrate (Pf/Mf) 1 1/2 sx Lignite 1/2 sx Pac Chloride Content, ppm 7,200 40 Gel f/ 50 vis Calcium. ppm Jet and add over 1 1/2 hours Gel only as needed, no need for extremely high viscosity Sand Content (% by Vol) Tr Solids Content (% by Vol.) 7.4 Oil Content (% by Vol.) 0.0 LCM as needed with c/s hulls 92.6 Water Content (% by Vol.) LCM, lbs/bbl. Tourly while drilling: 1 sx Caustic Reynold's #DP 2,123 1/2 sx Lignite *Add tourly at chemical bbl, add to system over 2 hours Reynold's # DC 2,972 ECD lb/gal 9.98 every tour that no premix is added DRILLING MUD INVENTORY Prior Day Trip slowly and don't shake pipe, break circulation Products: Delivery On Hand Used Cost on all TIH w/ bit 165 145 20 368.00 6 6 Circulate hole clean prior to all trips and keep hole full Lime 15 15 Soda Ash Divert all DST recovery to reserve pit 8 8 Caustic Soda 8 8 Lignite 64 59 5 89.75 If viscosity begins to climb, do not run an excessive amount of C/S Hulls 2 water to thin back, jet volume and clean a pit and add above Drill Pak 2 3 3 premix with Gel f/ 45-50 sec/at. viscosity Desco 2 2 Poly Plus Florigel Xcide 2 2 Sapp Barite Please keep all material covered as needed... Thanks! MilGuard Mud-Co / Service Mud Representative Home Address Telephone Number

Great Bend, Kansas

Warehouse Location

Hays, Kansas

620-792-4544

Telephone Number

785-621-4232



RILOBITE ESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56149

4/10					
Well Name & No. Dyer - Tamme	N #/	Test No		ate 10-11-	14
Company Alemino retroleu	m, FNC.	Elevation	1005	KB /998	GL GL
Address 4924 SE 84th St.	Newton	KS 6111	14-882	7	
Co. Rep / Geo. Andrew Sten:	ze/	Rig Pick	rell 7	4/0	
Location: Sec Twp	Rge. 16 W	_co. Ru	sh	StateKS	5
Interval Tested 3372 - 3402	Zone Tested	LKC		0.0	
Anchor Length	Drill Pipe Run	3376	Muc	I Wt	
Top Packer Depth 3367	Drill Collars Run	9	Vis	62	*
Bottom Packer Depth 3372	Wt. Pipe Run	0	WL	10.8	
Total Depth 3402	Chlorides	5600 ppm	System LCN	10	
Blow Description IFP- Surface	Blow Buil	ding to a	2 3/411	,	
ISIP-NoBlow		0	10		
FFR- Surface Blo	SW Buildin	19 to 3 7	412.		
FSIP-NO Blow		7			
Rec80_ Feet of MCW		%gas	%oil 8-	5 %water /	5 %mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Feet of		%gas	%oil	%water	%mud
Rec Total 80 BHT	Gravity	_API RW305@	65°F Ch	lorides 295	OO ppm
(A) Initial Hydrostatic 1700	Test		T-On Locati	on 09:10)
(B) First Initial Flow	Jars		T-Started _	12,43	5
(C) First Final Flow	Safety Joint		T-Open	17:30	2
(D) Initial Shut-In988	☐ Circ Sub		T-Pulled)
(E) Second Initial Flow3/	☐ Hourly Standby			19:35	
(F) Second Final Flow53	Mileage	102 RT	Comments	1	
(G) Final Shut-In 956	-1				
(H) Final Hydrostatic				Shale Packer	
				Packer	
Initial Open				copies	
Initial Shut-In				. оргоо	
Final Flow					
Final Shut-In60				Disc't	
	Sub Total		00	11)
Approved By	0	ur Representative	1/200	1 walle	anglesensonenson

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 results 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.



Palomino Petroleum Inc

12 19s 16w Rush

4924 SE 84th St Newton KS 67114-8827

Dyer-Tammen #1 Job Ticket: 56149

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2014.10.11 @ 12:43:00

GENERAL INFORMATION:

Formation:

LKC

Deviated:

Interval:

No Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester: Unit No:

Jim Svaty 76

Time Test Ended: 19:35:00

Time Tool Opened: 14:30:45

3372.00 ft (KB) To 3402.00 ft (KB) (TVD)

Total Depth: Hole Diameter: 3402.00 ft (KB) (TVD)

Reference Bevations:

2005.00 ft (KB)

7.88 inchesHole Condition: Fair

KB to GR/CF:

1998.00 ft (CF) 7.00 ft

Serial #: 8289

Outside

Press@RunDepth:

53.25 psig @ 2014.10.11

3374.00 ft (KB) End Date:

2014.10.11

Capacity: Last Calib.: 8000.00 psig

Start Date: Start Time:

12:43:00

End Time:

19:35:00

Time On Btm

2014.10.11 2014.10.11 @ 14:30:30

Time Off Btm:

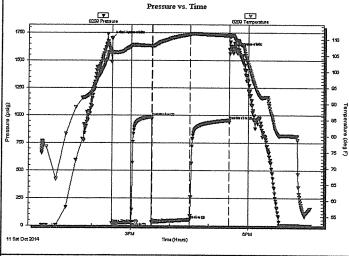
2014.10.11 @ 17:31:15

TEST COMMENT: 30-IFP- Surface Blow Building to 2 3/4in.

30-ISIP- No Blow

60-FFP- Surface Blow Building to 3 3/4in.

60-FSIP- No Blow



		P	RESSUF	RE SUMMARY
	Time	Pressure	Temp	Annotation
	(Mn.)	(psig)	(deg F)	
	0	1700.36	106.22	Initial Hydro-static
	1	20.02	105.72	Open To Flow (1)
ı	30	30.23	107.87	Shut-In(1)
-1	61	988.19	108.10	End Shut-In(1)
Temperature (deg F)	62	31.02	107.48	Open To Flow (2)
ature	120	53.25	111.56	Shut-In(2)
(deg	181	956.28	111.22	End Shut-In(2)
3	181	1598.75	111.43	Final Hydro-static
				-
١				

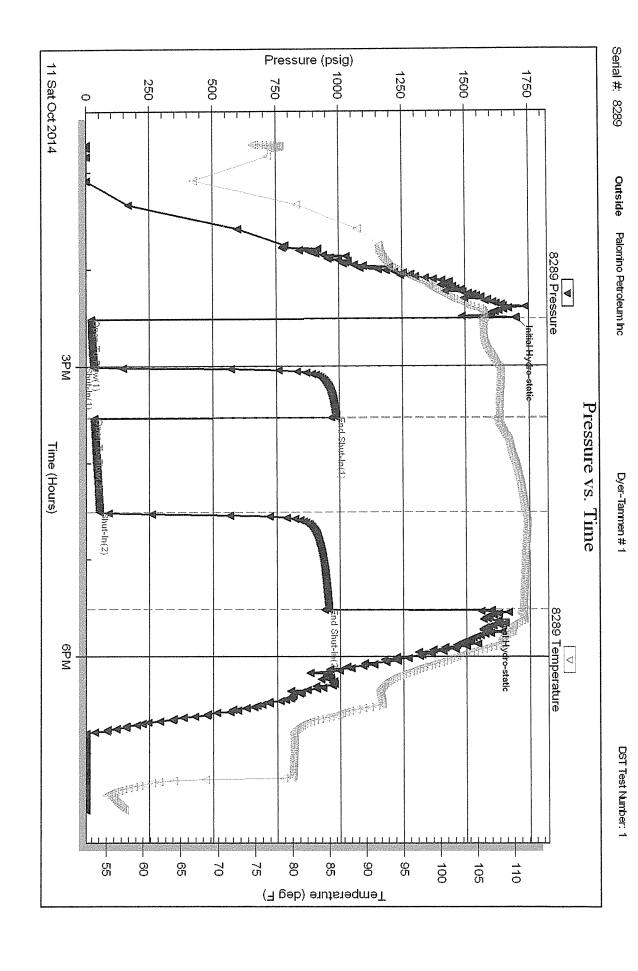
Recovery Length (ft) Description Volume (bbl) 80.00 MCW 15%m 85%w 1.12

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

Trilobite Testing, Inc

Ref. No: 56149

Printed: 2014.10.11 @ 19:42:35



Trilobite Testing, Inc

Ref. No: 56149

Printed: 2014.10.11 @ 19:42:35

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S. M. Hor 2	ore flotanes willer	512-1198-R15W 1973	U-6 P1983	77 TIS F10W 728	Legins Dunner	1946 Zer 1979	The state of the s
2		1983	Ice 1976	Total Pools Constitution of the Constitution o	\$ 184	Asu's Poyer B	
	1568 	Breutissen F.		1513 1745 515	5		
		\$7.T1\$S.R15W	Edminster T	12 M SECONDEC - 9 3500 MACEC - 9 3500 MCEC - 9 3500 MCEC - 9 57-1198-R15W	▶ 1988		626 m
C.H. March		73 23 V		Alsw As		1984 - 19	
P	100 mg 10	The state of the s			1987 M. 1982 M. 1	7 1988 1988	*