Kansas Corporation Commission Confidentiality Requested: OIL & GAS CONSERVATION DIVISION Yes No

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
Address 2:			Feet from North / South Line of Section
City: Sta	ate: Zi	p:+	Feet from East / West Line of Section
Contact Person:			Footages Calculated from Nearest Outside Section Corner:
Phone: ()			□ NE □ NW □ SE □ SW
CONTRACTOR: License #			GPS Location: Lat:, Long:
Name:			(e.g. xx.xxxxx) (e.gxxx.xxxxxx)
Wellsite Geologist:			Datum: NAD27 NAD83 WGS84
Purchaser:			County:
Designate Type of Completion:			Lease Name: Well #:
New Well Re-l	Entry	Workover	Field Name:
			Producing Formation:
☐ Oil ☐ WSW ☐ D&A	☐ SWD	∐ SIOW □ SIGW	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ D&A ☐ OG	GSW	Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	d3vv	remp. Abu.	Amount of Surface Pipe Set and Cemented at: Fee
Cathodic Other (Core,	. Expl., etc.);		Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info			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:			·
Deepening Re-perf.	Conv. to E	NHR Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back	Conv. to G	SW Conv. to Producer	(Data must be collected from the Reserve Pit)
O constituents at	D		Chloride content: ppm Fluid volume: bbls
<ul><li>Commingled</li><li>Dual Completion</li></ul>			Dewatering method used:
SWD			Location of fluid disposal if hauled offsite:
☐ ENHR			Location of hala disposal in fladica offsite.
☐ GSW			Operator Name:
_			Lease Name: License #:
Spud Date or Date Read	ched TD	Completion Date or	QuarterSecTwpS. R East Wes
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 III Approved by: Date:

Operator Name:				_ Lease I	Name: _			Well #:	
Sec Twp	S. R	East	West	County	:				
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in press o surface test, along v	ures, whe	ther shut-in pre chart(s). Attach	ssure reac extra shee	hed stati	c level, hydrosta space is neede	tic pressures, b d.	ottom hole temp	erature, fluid recov
Final Radioactivity Lo files must be submitte						ogs must be ema	alled to kcc-well-	logs@kcc.ks.go	v. Digital electronic
Drill Stem Tests Taker (Attach Additional		Y	es No			J	on (Top), Depth		Sample
Samples Sent to Geo	logical Survey	Y	es No		Nam	е		Тор	Datum
Cores Taken Electric Log Run			es  No						
List All E. Logs Run:									
				RECORD	Ne				
	0: 11.1					ermediate, product		" 0 1	T 15
Purpose of String	Size Hole Drilled		ze Casing t (In O.D.)	Weig Lbs.		Setting Depth	Type of Cement	# Sacks Used	Type and Percer Additives
			ADDITIONAL	CEMENTI	NG / SQL	JEEZE RECORD			
Purpose:	Depth Top Bottom	Туре	of Cement	# Sacks	Used		Type and	Percent Additives	
Perforate Protect Casing	Top Dottern								
Plug Back TD Plug Off Zone									
1 lug 0 li 20 lio									
Did you perform a hydrau	ulic fracturing treatment	on this well	?			Yes	No (If No, s	skip questions 2 a	nd 3)
Does the volume of the t			-		-			skip question 3)	
Was the hydraulic fractur	ing treatment informatio	n submitted	to the chemical of	disclosure re	gistry?	Yes	No (If No, i	ill out Page Three	of the ACO-1)
Shots Per Foot			RD - Bridge Plug Each Interval Perl				cture, Shot, Ceme	nt Squeeze Recor	rd Depth
						(* *			200
TUBING RECORD:	Size:	Set At:		Packer A	t·	Liner Run:			
		0017111				[	Yes N	o	
Date of First, Resumed	Production, SWD or EN	HR.	Producing Meth	nod:	g 🗌	Gas Lift (	Other (Explain)		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wat	er B	bls.	Gas-Oil Ratio	Gravity
DIODOCITI	01.05.040			4ETUOD 05	. 00145/	TION:		DDOD! ICT!	
DISPOSITION Solo	ON OF GAS:  Used on Lease		N Open Hole	∥ETHOD OF Perf.			mmingled	PRODUCTION	ON INTERVAL:
	bmit ACO-18.)		Other (Specify)		(Submit		mit ACO-4)		

Form	ACO1 - Well Completion
Operator	Raydon Exploration, Inc.
Well Name	George 1-30
Doc ID	1153639

## All Electric Logs Run

Array Compensated True Resistivity Log
Spectral Density Dual Spaced Neutron Log
Annular Hole Volume Plot
Microlog
Borehole Compensated Sonic Array Log
Cement Bond Log

## **Summary of Changes**

Lease Name and Number: George 1-30

API/Permit #: 15-119-21331-00-00

Doc ID: 1153639

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	04/10/2013	07/31/2013
Completion Or Recompletion Date	04/10/2013	05/15/2013
Date of First or Resumed Production or		5/15/2013
SWD or Enhr Disposition Of Gas - Sold	No	Yes
Liner Run?		No
Method Of Completion - Perf	No	Yes
Perf_Depth_1		5732-5742
Perf_Depth_2		5732-5742
Perf_Material_1		1000 gals 15% HCL
Perf_Material_2		7607 gals 15% FE acid

## Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Perf_Record_1		5732-5742
Perf_Shots_1		3
Producing Method Flowing	No	Yes
Production - Barrels Oil		5
Production - Barrels of Water		3.5
Production - Gas-Oil Ratio		0
Production - MCF Gas		429
Production - Oil Gravity		40
Save Link	//kcc/detail/operatorE ditDetail.cfm?docID=11	//kcc/detail/operatorE ditDetail.cfm?docID=11
Tubing Record - Set At	31406	53639 5714
Tubing Size		2.375



# CONFIDENTIAL KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION WELL COMPLETION FORM

1131406

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

## WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City: State: Zip: +	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
□ Oil         □ WSW         □ SIOW           □ Gas         □ D&A         □ ENHR         □ SIGW           □ OG         □ GSW         □ Temp. Abd.           □ CM (Coal Bed Methane)         □ Cathodic         □ Other (Core, Expl., etc.):           □ If Workover/Re-entry: Old Well Info as follows:	Amount of Surface Pipe Set and Cemented at: Feet  Multiple Stage Cementing Collar Used? Yes No  If yes, show depth set: Feet  If Alternate II completion, cement circulated from: sx cmt
Operator:	Dellin a Florid Management Plan
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:  Deepening Re-perf. Conv. to ENHR Conv. to SWD  Conv. to GSW  Plug Back: Plug Back Total Depth  Commingled Permit #:	Chloride content:ppm Fluid volume:bbls  Dewatering method used:  Location of fluid disposal if hauled offsite:
Dual Completion Permit #:	Operator Name:
SWD Permit #:	Lease Name: License #:
■ ENHR         Permit #:	Quarter Sec TwpS. R East Wes
GSW Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	

#### **AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

**Submitted Electronically** 

KCC Office Use ONLY
Letter of Confidentiality Received
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I III Approved by: Date:

KOLAR Document ID: 1131406

#### Page Two

Operator Name: _				Lease Name:			Well #:	
Sec Twp.	S. R.	E	ast West	County:				
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No					
		B	CASING eport all strings set-c		New Used	ion, etc.		
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD			
Purpose:		epth T Bottom	ype of Cement	# Sacks Used		Type and F	Percent Additives	
Perforate Protect Casi Plug Back T								
Plug Off Zor								
Did you perform a     Does the volume     Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)		
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT
,	,			B.11 B1				
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:				
TODING RECORD:	. 3126.	Set	n.	i donei Al.				

Form	ACO1 - Well Completion
Operator	Raydon Exploration, Inc.
Well Name	George 1-30
Doc ID	1131406

## All Electric Logs Run

Array Compensated True Resistivity Log
Spectral Density Dual Spaced Neutron Log
Annular Hole Volume Plot
Microlog
Borehole Compensated Sonic Array Log
Cement Bond Log

Form	ACO1 - Well Completion		
Operator	Raydon Exploration, Inc.		
Well Name	George 1-30		
Doc ID	1131406		

## Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	24	1680	A-Con, Prem Plus	550	3%CC,.2 %WCA1,P olyflake
Production	7.875	4.5	10.5	5915	A-Con, AA-2	325	3%CC,5% W60,Polyfl ake



**Customer Representative** 

**Cement Report** 

Customer	Loudou	الشبيق.	locations	Lease No.			Date	12-34-12
Lease /	pedes		te to the to	Well# (-	Well # (-30 Servi		ervice Receipt	20-33-30
Casing 1	10	Depth /	5921	County	Mondo	SI	ate KS	of the same of the
Job Type	15/2	m. 7	Formation		L	egal Description	03177	
		Pipe 0	Data		P	Perforating		Cement Data
Casing size	11'9"	10,5#	Tubing Size			Shots/F		Lead /25
Depth -	70 5	7131	Depth		From	To		A. Con
Volume	iso 91	1 6/51	Volume		From	To		
Max Press	1500	#	Max Press		From	То		Tail in $\mathcal{I}$
Well Connec	1	921	Annulus Vol.		From	To		AAD
Plug Depth	51-42	) /	Packer Depth		From	То		
Time	Casing Pressure	Tubing Pressure	Bbls. Pumbed	Rate			Service Log	
J 00					1042	100.518	<u> </u>	Survit
300					500	4 40	-KS-11	7 10
400					Stud	t ess 1	Port	Paup
				<u> </u>	CSA	on tohu	1 Spent	c ruc
					500	y mod	, , , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·
					10000		5+V 30	20tt
	<i>300</i>		5	5	Purp	<u> 5 66</u>	1 1/20	Spece
	<u> </u>		12	5	PARP		pl Sun	echipsi
	200	<u></u>	5		Pung	5/201	1100 SC	nco
	_ 50		13_	3	MIX	1 DUMO	50 sk	1. Con due
			70.00		Mat	- Mai	18 <u>5. i</u> 4.j	0/15
	200		39/00/00	=	MALT	Dump,	<del>7&gt;3</del> -	A-100 01/4#
	200			>	5	1, 7	26 350	114201104
				,	Was!		<u> </u>	
	$\frac{O}{C_{2}}$			2	0.00	71137	d50	<u>59                                    </u>
7.70	900		20		7014	1		11
7:30	1400		<u> GU</u>		lound	Dug .	Dat Lad	1
						<u> </u>		
						·		
	· ·							
<del></del> †								
Service Units	1376	)^n	753 (N 1/10/10)	MY	10501	107/ 1100	7	
Driver Name		9	35) 50-19812 K Unilownif		1. 100	FIM	į	
Ditter Hame		LYP GA	K FOLLOWNIA	<u> </u>	<del>wya L</del>	(DAMA	(f.a)	
	Lad	VIII S		1	Being	4	A	P.N.∕A

Station Manager

Cementer

Taylor Printing, Inc.



**Cement Report** 

	Libera	I, Kansas					- Joinson Hoport
Customer	. () 1.7 / // 1	VI EX	delation	Lease No. Date 12/17/17			
Lease (	0191	<i>f</i>		Well # / 30 Service Red			pipt
Casing /	4 <b>7</b> 4 -	Depth / (	085	County Weado State 10			
Job Type	viface		Formation		Legal Desc	ription 30/=	35/30
	,	Pipe [	Data		Perfora	ting Data	Cement Data
Casing size	45/4		Tubing Size		Sho	ots/Ft	Lead4005x A Cor-
Depth / (e	47 \$9		Depth		From	То	a 11,4#
Volume	114134	<del></del>	Volume		From	То	2.95 18 10
Max Press	15M)		Max Press		From	То	2,95 18,10 Tail in 150 5x C
Well Connec	ction P		Annulus Vol.		From	To	@14,8
Plug Depth			Packer Depth		From To		1,34 6,33
Time	Casing Pressure	Tubing Pressure	Bbls. Pumbed	Rate		Servic	
17:00					on Loc, 4	spot truc	KS R. U. Satt pla
22,05	270O				Test (1	nes.	/ /
21,15	190		0	5	Start M	1/1946	11.44
22.55	160		210	5	on Tail	@14/8	#
23 Oca	Ø		36	W	Finished	Mixing	
23,09	Ø		0	5	Start D	150 W	astrup
23, 30	500		94	/	5/MER	a G	
25,40	1050		104	$\mathscr{E}$	Plus Do		
<i>93</i> ,47	Z				Release	PSIFL	cat Held
					376CE	molete	
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ŧ.,							
			4				
Service Units	1954	F6	39 <i>27339976</i>	27406 11	1784 BY 633	7547	
Driver Name	7	WZ.	R.CLC	5.Gr. a	los Tilass		
7		<u> </u>	./	7	7 ./		11. 1.11
	U.dr	21.6 X		Lill P	XIIIPH (		Mad HATE

Customer Representative

Station Manager

Cementer

Taylor Printing, Inc.

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner

April 03, 2013

David E. Rice Raydon Exploration, Inc. 1601 NW EXPRESSWAY, STE 1300 OKLAHOMA CITY, OK 73118-1462

Re: ACO1 API 15-119-21331-00-00 George 1-30 SE/4 Sec.30-33S-30W Meade County, Kansas

#### **Dear Production Department:**

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, David E. Rice



Prepared For:

**Raydon Exploration** 

1601 NW Expressway

STE 1300

Oklahoma City OK 73118

ATTN: Ed Grieves

## George #1-30

### 30-33s-30w Meade,KS

Start Date: 2012.12.17 @ 16:13:15

End Date: 2012.12.18 @ 02:42:15

Job Ticket #: 51319 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



Raydon Exploration

30-33s-30w Meade, KS

George #1-30

Job Ticket: 51319

DST#: 1

Test Start: 2012.12.17 @ 16:13:15

#### **GENERAL INFORMATION:**

Formation:

"A"

Deviated:

No

Whipstock: Time Tool Opened: 18:56:45

ft (KB)

Conventional Bottom Hole (Initial)

Tester:

Mike Roberts

Unit No:

65

Reference Elevations:

4495.00 ft (KB) 4485.00 ft (CF)

KB to GR/CF:

10.00 ft

Interval: Total Depth:

Start Date:

Start Time:

Hole Diameter:

Press@RunDepth:

4485.00 ft (KB) To 4495.00 ft (KB) (TVD) 4495.00 ft (KB) (TVD)

Time Test Ended: 02:42:15

7.88 inchesHole Condition: Fair

Serial #: 8646

Inside

395.30 psig @ 2012.12.17

16:13:15

4486.00 ft (KB)

End Date: End Time:

2012.12.18 02:42:15 Capacity:

8000.00 psig

Last Calib .: Time On Btm:

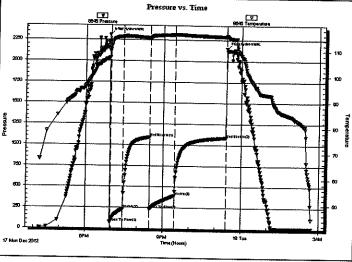
2012.12.18 2012.12.17 @ 18:55:15

Time Off Btm:

2012.12.17 @ 23:26:30

TEST COMMENT: IF:BOB in 4 min.

IS:No return blow FF:BOB in 5 min. FS:No return blow



## PRESSURE SUMMARY

	. REGOOKE GOMMAKI						
	Time	Pressure	Temp	Annotation			
	(Min.)	(psig)	(deg F)				
	0	2310.01	107.28	Initial Hydro-static			
	2	73.42	110.59	Open To Flow (1)			
	32	231.19	115.36	Shut-In(1)			
	93	1089.44	115.00	End Shut-In(1)			
	94	233.56	114.53	Open To Flow (2)			
	151	395.30	116.20	Shut-ln(2)			
	271	1088.07	115.55	End Shut-In(2)			
	272	2150.46	115.90	Final Hydro-static			
				•			
ı							
I							
1							

#### Recovery

Length (ft)	Description	Volume (bbl)
979.00	sw 100%sw	11.03
124.00	mcw 50%m 50%w	1.74
134.00	w cm 20%w 80%m	1.88
2.00	free oil	0.03

Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 51319



Raydon Exploration

30-33s-30w Meade, KS

1601 NW Expressway

STE 1300

Oklahoma City OK 73118

ATTN: Ed Grieves

George #1-30

Job Ticket: 51319

DST#: 1

Test Start: 2012.12.17 @ 16:13:15

#### **GENERAL INFORMATION:**

Time Tool Opened: 18:56:45

Time Test Ended: 02:42:15

Formation:

"A"

Deviated:

Νo Whipstock: ft (KB)

Conventional Bottom Hole (Initial)

Tester:

Mike Roberts

Unit No:

65

Reference Elevations:

4495.00 ft (KB)

4485.00 ft (CF)

KB to GR/CF:

10.00 ft

interval:

4485.00 ft (KB) To 4495.00 ft (KB) (TVD)

Total Depth:

4495.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Serial #: 8365 Press@RunDepth: Outside

psig @

4486.00 ft (KB) End Date:

2012.12.18

Capacity:

8000.00 psig

Last Calib .:

Start Date: Start Time:

2012.12.17 16:13:00

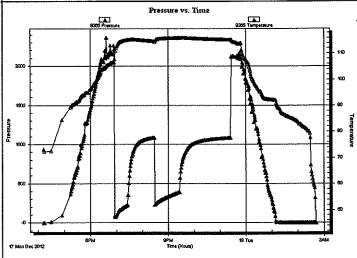
End Time:

02:42:15

Time On Btm: Time Off Btm: 2012.12.18

TEST COMMENT: IF:BOB in 4 min.

IS:No return blow FF:BOB in 5 min. FS:No return blow



## PRESSURE SUMMARY

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

#### Recovery

124.00 mcw 50%m 50%w 1.74	Volume (bbl)	Description	Length (ft)
127.00	11.03	sw 100%sw	979.00
134.00 w cm 20%w 80%m 1.88	1.74	mcw 50%m 50%w	124.00
	1.88	w cm 20%w 80%m	134.00
2.00 free oil 0.03	0.03	free oil	2.00
		, , , , , , , , , , , , , , , , , , , ,	
	_	•	

#### Gas Rates

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



**TOOL DIAGRAM** 

Raydon Exploration

30-33s-30w Meade,KS

1601 NW Expressway STE 1300

Oklahoma City OK 73118 ATTN: Ed Grieves

George #1-30

Job Ticket: 51319

DST#: 1

Test Start: 2012.12.17 @ 16:13:15

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 4195.00 ft Diameter:

0.00 ft Diameter:

3.80 inches Volume:

58.84 bbl 0.00 bbl 1.46 bbl Tool Weight:

1500.00 lb

Drill Collar:

Length:

297.00 ft Diameter:

0.00 inches Volume: 2.25 inches Volume:

Weight set on Packer: 20000.00 lb Weight to Pull Loose: 80000.00 lb

Tool Chased 0.00 ft

Drill Pipe Above KB: Depth to Top Packer:

26.00 ft 4485.00 ft Total Volume: 60.30 bbl

String Weight: Initial 70000.00 lb Final 72000.00 lb

Depth to Bottom Packer: Interval between Packers:

ft 10.00 ft

2

Diameter:

29.00 ft

6.75 inches

Tool Comments:

Number of Packers:

Tool Length:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4467.00		
Shut In Tool	5.00			4472.00		
Hydraulic tool	5.00			4477.00		
Jars	5.00			4482.00		
Safety Joint	3.00			4485.00		
Packer	0.00			4485.00	19.00	Bottom Of Top Packer
Packer - Shale	0.00	·····		4485.00		
Stubb	1.00			4486.00		
Recorder	0.00	8646	Inside	4486.00		
Recorder	0.00	8365	Outside	4486.00		
Perforations	4.00			4490.00		
Bullnose	5.00			4495.00	10.00	Anchor Tool

**Total Tool Length:** 

29.00

Trilobite Testing, Inc

Ref. No: 51319



**FLUID SUMMARY** 

Raydon Exploration

30-33s-30w Meade,KS

1601 NW Expressway STE 1300

Oklahoma City OK 73118

George #1-30

Job Ticket: 51319

DST#: 1

ATTN: Ed Grieves

Test Start: 2012.12.17 @ 16:13:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: Viscosity:

9.00 lb/gal 44.00 sec/qt Cushion Length: Cushion Volume: ft bbl Water Salinity: 68000 ppm

Water Loss:

8.34 in<sup>3</sup>

Gas Cushion Type:

psig

Resistivity:

Salinity:

Filter Cake:

0.00 ohm.m 3800.00 ppm

Gas Cushion Pressure:

1.00 inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
979.00	sw 100%sw	11.027
124.00	mcw 50%m 50%w	1.739
134.00	w cm 20%w 80%m	1.880
2.00	free oil	0.028

Total Length:

1239.00 ft

Total Volume:

14.674 bbl

Num Fluid Samples: 0

Num Gas Bombs:

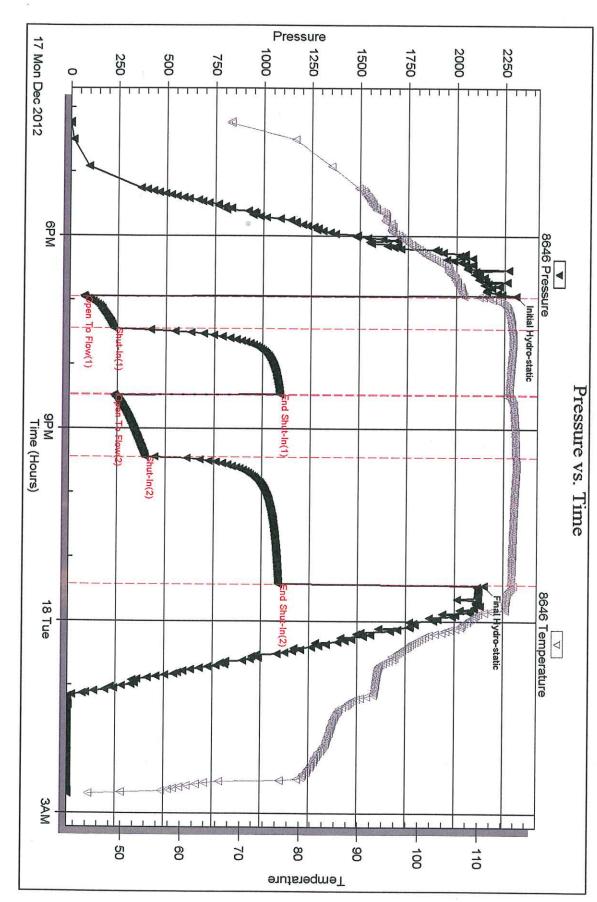
Serial #:

Laboratory Name:

Laboratory Location: Recovery Comments: RW= >275 @ 35.7\*=68,000 ppm

Trilobite Testing, Inc

Ref. No: 51319



Trilobite Testing, Inc

Ref. No:

51319

Trilobite Testing, Inc

Ref. No: 51319



Prepared For: Raydon Exploration

1601 NW Expressway

STE 1300

Oklahoma City OK 73118

ATTN: Ed Grieves

George #1-30

30-33s-30w Meade,KS

2012.12.21 @ 21:00:00 Start Date:

End Date: 2012.12.22 @ 08:52:00

Job Ticket #: 51261

DST#: 2

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



Raydon Exploration

30-33s-30w Meade, KS

1601 NW Expressway

George #1-30

STE 1300

Job Ticket: 51261

DST#: 2

Oklahoma City OK 73118 ATTN: Ed Grieves

Test Start: 2012.12.21 @ 21:00:00

#### GENERAL INFORMATION:

Time Tool Opened: 00:45:00

Time Test Ended: 08:52:00

Formation:

Morrow

Deviated:

No Whipstock: ft (KB)

Conventional Bottom Hole (Reset)

Tester:

Sam Esparza

Unit No:

Reference Elevations:

4495.00 ft (KB) 4485.00 ft (CF)

KB to GR/CF:

10.00 ft

Total Depth: Hole Diameter:

Serial #: 8845

Press@RunDepth:

Interval:

5713.00 ft (KB) To 5730.00 ft (KB) (TVD)

Outside

5730.00 ft (KB) (TVD)

7.88 inchesHole Condition: Good

33.76 psig @

5714.00 ft (KB)

2012.12.22

Capacity: Last Calib.: 8000.00 psig

Start Date: Start Time: 2012.12.21 21:00:05 End Date: End Time:

08:52:00

Time On Btm:

2012.12.22 2012.12.22 @ 00:44:15

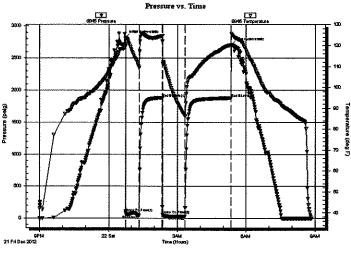
Time Off Btm:

2012.12.22 @ 05:22:00

TEST COMMENT: IF: BOB @ 15 seconds. Gas to surface @ 15 min.

ISI: No return. FF: BOB immediatly.

FSI: Weak surface return died @ 25 min.



#### DDESCHOE SHMMADV

J		RE SUMMARY		
Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2821.39	119.88	Initial Hydro-static
	1	87.89	121.86	Open To Flow (1)
	35	45.96	109.30	Shut-ln(1)
۱ ـ	97	1881.49	124.57	End Shut-In(1)
entro	98	62.69	111.21	Open To Flow (2)
Temperature (deg F)	157	33.76	86.16	Shut-ln(2)
(deg	277	1878.31	120.45	End Shut-In(2)
J	278	2707.65	125.76	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02
* Recovery from n	nultiple tests	

#### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	14.00	189.55
Last Gas Rate	0.50	16.00	203.05
Max. Gas Rate	0.50	17.00	209.79



Raydon Exploration

30-33s-30w Meade, KS

1601 NW Expressway

STE 1300

Oklahoma City OK 73118

ATTN: Ed Grieves

George #1-30

Job Ticket: 51261

DST#: 2

Test Start: 2012.12.21 @ 21:00:00

#### **GENERAL INFORMATION:**

Time Tool Opened: 00:45:00

Time Test Ended: 08:52:00

Formation:

Morrow

Deviated:

Interval:

Total Depth:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester:

Sam Esparza

Unit No:

64

Reference Elevations:

4495.00 ft (KB) 4485.00 ft (CF)

KB to GR/CF:

10.00 ft

Hole Diameter:

Serial #: 8017

Press@RunDepth:

5730.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good

Outside

psig @

5713.00 ft (KB) To 5730.00 ft (KB) (TVD)

5714.00 ft (KB)

End Date:

2012.12.22

Capacity:

8000.00 psig

2012.12.22

Last Calib.: Time On Btm:

Start Date: Start Time: 2012.12.21 21:00:05

End Time:

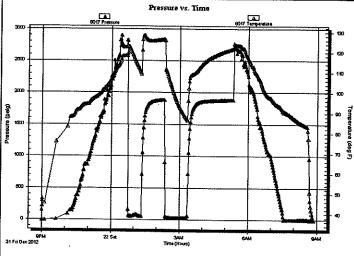
08:52:00

Time Off Btm:

TEST COMMENT: IF: BOB @ 15 seconds. Gas to surface @ 15 min.

iSI: No return. FF: BOB immediatly.

FSI: Weak surface return died @ 25 min.



## PRESSURE SUMMARY

	. NEOGOTE GOIMMAN								
	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation					
	(,-,	(#4.9)	(409.7						
į.									
Temperature (deg F)									
re (dea F									
9									

#### Recovery

Length (ft)	Description	Volume (bbl)		
5.00	Mud 100m	0.02		
* Recovery from n	nultiple tests			

#### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	14.00	189.55
Last Gas Rate	0.50	16.00	203.05
Max. Gas Rate	0.50	17.00	209.79

Trilobite Testing, Inc

Ref. No: 51261



**TOOL DIAGRAM** 

Raydon Exploration

STE 1300

30-33s-30w Meade,KS

1601 NW Expressway

George #1-30

Job Ticket: 51261

DST#: 2

Oklahoma City OK 73118 ATTN: Ed Grieves

Test Start: 2012.12.21 @ 21:00:00

Final

Tool Information

Drill Collar:

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 5402.00 ft Diameter: Length:

0.00 ft Diameter: 297.00 ft Diameter:

15.00 ft

3.80 inches Volume: 75.78 bbl 0.00 inches Volume: 0.00 bbl 1.46 bbl 2.25 inches Volume: Total Volume: 77.24 bbl Tool Weight: Weight set on Packer: 35000.00 lb

2000.00 lb

Weight to Pull Loose: 90000.00 lb

**Tool Chased** 

0.00 ft String Weight: Initial 83000.00 lb

83000.00 lb

Depth to Top Packer: Depth to Bottom Packer:

Drill Pipe Above KB:

5713.00 ft ft Interval between Packers:

17.00 ft

46.00 ft

2

Diameter:

6.75 inches

Tool Comments:

Number of Packers:

Tool Length:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			5685.00		
Shut In Tool	5.00			5690.00		
Hydraulic tool	5.00			5695.00		
Jars	5.00			5700.00		
Safety Joint	3.00			5703.00		
Change Over Sub	1.00			5704.00		
Packer	5.00			5709.00	29.00	Bottom Of Top Packer
Packer	4.00			5713.00		
Stubb	1.00			5714.00		
Recorder	0.00	8017	Outside	5714.00		
Recorder	0.00	8845	Outside	5714.00		
Perforations	11.00			5725.00		
Bullnose	5.00			5730.00	17.00	Bottom Packers & Anchor

**Total Tool Length:** 

46.00



**FLUID SUMMARY** 

Raydon Exploration

30-33s-30w Meade,KS

1601 NW Expressway STE 1300

George #1-30 Job Ticket: 51261

ft

bbl

psig

DST#: 2

Oklahoma City OK 73118 ATTN: Ed Grieves

Test Start: 2012.12.21 @ 21:00:00

**Mud and Cushion Information** 

Mud Type: Gel Chem

Mud Weight:

Viscosity:

Water Loss:

Resistivity: Salinity:

Filter Cake:

0.00 ohm.m 2600.00 ppm

9.00 lb/gal

55.00 sec/qt

6.19 in<sup>3</sup>

Cushion Type:

Cushion Length:

Cushion Volume: Gas Cushion Type:

Gas Cushion Pressure:

Oil API: Water Salinity:

deg API

ppm

1.00 inches

**Recovery Information** 

Recovery Table

Length Description Volume bbi 5.00 Mud 100m 0.025

Total Length:

5.00 ft

Total Volume:

0.025 bbl

Num Fluid Samples: 0 Laboratory Name:

Num Gas Bombs:

0

Serial #:

Printed: 2012.12.26 @ 09:13:57

Laboratory Location:

Recovery Comments:



**GAS RATES** 

Raydon Exploration

1601 NW Expressway

Oklahoma City OK 73118 ATTN: Ed Grieves 30-33s-30w Meade,KS

George #1-30

Job Ticket: 51261

DST#: 2

Test Start: 2012.12.21 @ 21:00:00

Printed: 2012.12.26 @ 09:13:58

#### **Gas Rates Information**

Temperature:

59 (deg F)

STE 1300

Relative Density:

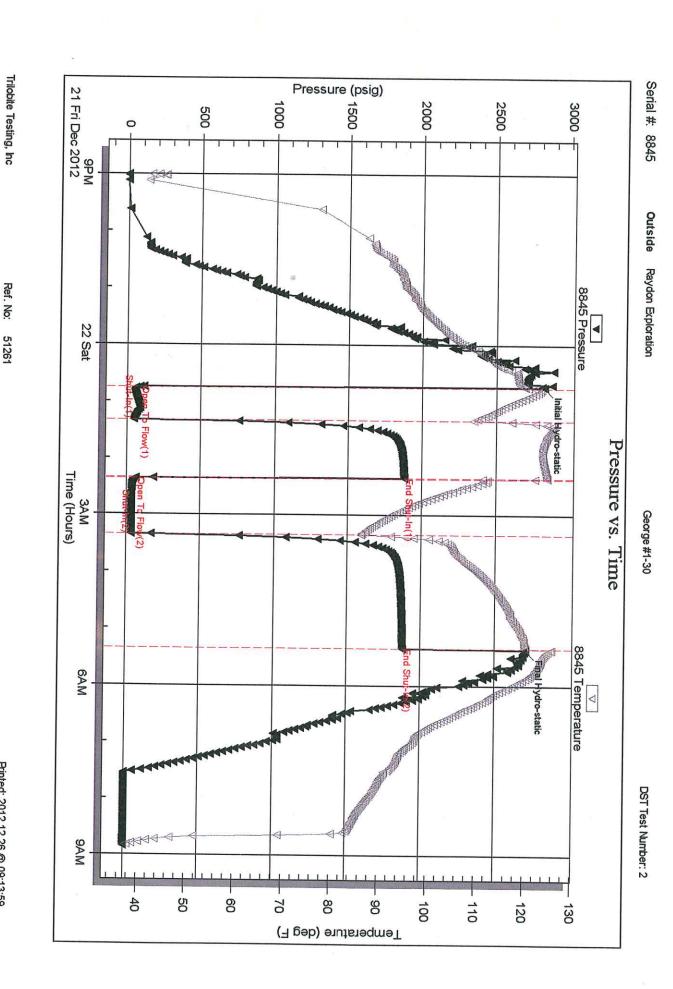
0.65

Z Factor:

0.8

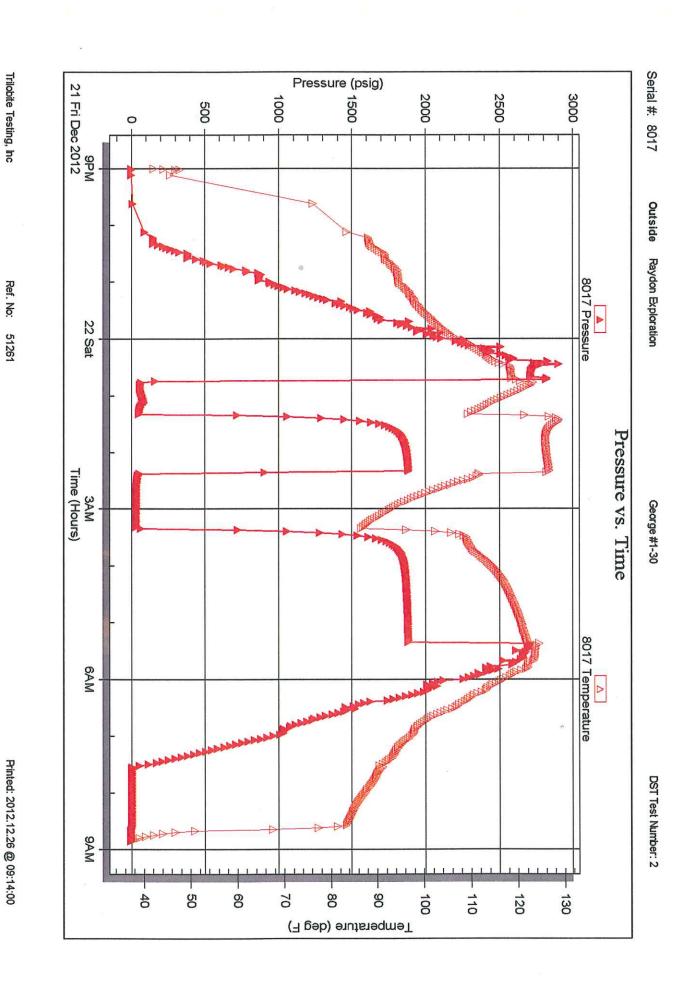
#### Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	1	0.50	14.00	189.55
2	5	0.50	17.00	209.79
2	10	0.50	17.00	209.79
2	20	0.50	16.00	203.05
2	30	0.50	16.00	203.05
2	40	0.50	16.00	203.05
2	50	0.50	16.00	203.05
2	60	0.50	16.00	203.05



Ref. No:

51261





# RILOBITE ESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## **Test Ticket**

No. 51319

4/10 17,000				
Well Name & No. Raydon Explora.	tion Test No.		Date 12-1	7-12
Company George 41-30	Elevation	2723	KB 27/	3_GL
Address 1601 NW Expression	1 STE 1300 OKlahoma d	ity OK	23118	
Co. Rep/Geo. Ed Grieves	Rig Tomco	y #	4	
	Rge. 36 co. Meade		State _/	(5
Interval Tested 4485 - 4495	Zone Tested (A)		**************************************	
Anchor Length 10	Drill Pipe Run 4/95		Mud Wt. 9.0	
Top Packer Depth 448/	Drill Collars Run 297		Vis 44	
Bottom Packer Depth 4485	Wt. Pipe Run		WL 8.4	
Total Depth 4495	Chlorides 3800ppm	System	LCM 10	
Blow Description IF: BOB IN	4 MIN			
Is: No Return	Blow			
FF: BOB IN 5	- Min	***************************************		
FS: NO Return	Blow			
Rec 2 Feet of Free oil	%gas	%oil	%water	%mud
Rec 134 Feet of WCM	%gas	%oil	20 %water	80 %mud
Rec 124 Feet of MCW	%gas	%oil	50 %water	50 %mud
Rec 979 Feet of SW	%gas	%oil	100 %water	%mud
RecFeet of	%gas	%oil	%water	%mud
Rec Total 1239 BHT 115	Gravity API RW 275 @	357/-	F Chlorides 68,	000 ppm
(A) Initial Hydrostatic 23/0	☐ Test1250		ocation 15	-
(B) First Initial Flow 23	D Jars 250	T-Star	ted 16:1	.3
(C) First Final Flow 23/	Safety Joint75	T-Ope	n 18:5	6
(D) Initial Shut-In	Circ Sub . NC	T-Pulle		e
(E) Second Initial Flow	☐ Hourly Standby	T-Out	02:42	<del></del>
(F) Second Final Flow 395	Mileage RT 2303	Comm 56.50	ients	
(G) Final Shut-In 1088	☐ Sampler	1000	A Complete Company of the Company of	· · · · · · · · · · · · · · · · · · ·
(H) Final Hydrostatic 2/50	□ Straddle_			
	Shale Packer 250		ined Shale Packer_	
Initial Open 30	Extra Packer 250		ined Packer	
Initial Shut-In	☐ Extra Recorder		tra Copies otal0	
Final Flow 40	☐ Day Standby		2431.50	
Final Shut-In 0 12.0	Accessibility NO Stairs		ST Disc't	***************************************
A10 11 01 C	Sub Total 2431.50 Catualle	- 11110	J1 D1301	
Approved By Alan Manch	Our Representative	MA	Rohat	-

Trilobite Testing the 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 tost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# RILOBITE ESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## **Test Ticket**

NO. 51261

4/10 TRICARY					
Well Name & No. (7esge #1-36		Test No	7	Date 12/21/	12
Company Raydon Exploration		Elevation	1495	_KB_ 4485	5GL
Address 1601 NW Express way STE	1300 Ottobern C	tu, ok 6.	73/18		200
Co. Rep / Geo. Ed Grieves		Rig Tancert	#4		
Location: Sec. 3 Twp. 33	Rge. 3 a	Co. Mende		State <u>K</u> _	5
Interval Tested 5713 - 513s	Zone Tested _ K				
Anchor Length 17			N	lud Wt. 9.0	
Top Packer Depth 5769	20121 12 17 18	297		is <u>55</u>	
Bottom Packer Depth 5713		Ø	w	IL 62	
Total Depth 573s		ppm		см <u>/О</u>	
Blow Description BoB @ 15 Seconds.	Gas to Surface @	15 min.			
No return.			***************************************		
Bob + Gos to Surface	immediatly.				
Week Surface John died	@ 25 min.				occupations in the contract of
Rec 5 Feet of Mud		%gas	%oil	%water	100 %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 5 BHT 121	Gravity	API RW@		Chlorides	ppm
(A) Initial Hydrostatic 2821	Test1350			ation	3
(B) First Initial Flow 88	Jars 250			21:00	
(C) First Final Flow 46		75		00:44	
(D) Initial Shut-In	_ Circ Sub MC	3h 300	T-Pulled	グリンク	
(E) Second Initial Flow63	Hourly Standby	,	19:35	15/Onded to	Is
(F) Second Final Flow34	Mileage _232	R/7 356.50	, e.e		
(G) Final Shut-In	□ Sampler_				
(H) Final Hydrostatic 2708	Straddle		Ruine	ed Shale Packer	350
3	Shale Packer_	X 2 500	- 🗆 Ruine	ed Packer	***************************************
Initial Open	Extra Packer		- ☐ Extra	Copies	
Initial Shut-In 60	□ Extra Recorder		Sub Tota	350	
Final Flow 60	Day Standby	150	,	3331.50	
Final Shut-In	Accessibility /	o Steps on Cotum	IK MP/DST	Disc't	
(1) MOL	Sub Total 2981.	50	- 1	2	
Approved By My		ur Representative_	16		N
Trilobite Testing Inc. show not be liable for damaged of any kind of the pro- equipment, or its statements or opinion concerning the results of any tes	harfy or personnel of the one for whon t, tools lost or damaged in the hole shal	i a test is made, or for any los Il be paid for at cost by the pa	is suffered or sustaine rty for whom the test	o, directly or indirectly, is made.	inrough the use of its



# RILOBITE ESTING INC.

## **Gas Volume Report**

P.O. Box 1733 • Hays, Kansas 67601

	Rayl	- Explorat		George	2 #1-30			2
		Operator		,		ne and No.		DST No.
Min.	Ins. of Water PSIG	Orifice Size	CF/D	Min.	Ins. of Water PSIG	Orifice Size	CF/D	)
·				1	14	,5000	189,554	
<del></del>	·		**	5	17	,5∞2	209.791	
***************************************				10	17	, 5000	269, 791	
· · · · · · · · · · · · · · · · · · ·				20	16	,5000	203.045	
				30	16	.5000	. L.3. 045	
				40	16	<u>, కప్రం</u>	203, 045	
		· · · · · · · · · · · · · · · · · · ·		50	16	· 5 <del>0</del> 67	203, 045	
				60	16	15000	203.045	
· · · · · · · · · · · · · · · · · · ·		***************************************				<del>1600</del> 0		POST 44000044 ANNI MALKANI MEMINENI MEMINENI MEMINENI MEMANUNI MEMINENI MEMINENI MEMINENI MEMINENI MEMINENI ME
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Remark	s:		•					

