

Kansas Corporation Commission Oil & Gas Conservation Division

1141320

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

Side Two

1141320

Operator Name:			Lease Name: _			_ Well #:		
Sec Twp	S. R	East West	County:					
time tool open and clo	osed, flowing and shu es if gas to surface te	d base of formations pe t-in pressures, whether st, along with final char- well site report.	shut-in pressure rea	ached static level,	hydrostatic press	sures, bottom h	nole temperature, fluid	
Drill Stem Tests Taker (Attach Additional		☐ Yes ☐ No		_og Formatio	n (Top), Depth an	d Datum	Sample	
Samples Sent to Geo	logical Survey	Yes No	Nan	ne		Тор	Datum	
Cores Taken Electric Log Run Electric Log Submitte (If no, Submit Copy		Yes No Yes No Yes No						
List All E. Logs Run:								
				lew Used				
D (0):	Size Hole	Report all strings set Size Casing	t-conductor, surface, in Weight	termediate, producti Setting	on, etc. Type of	# Sacks	Type and Percent	
Purpose of String	Drilled	Set (In O.D.)	Lbs. / Ft.	Depth	Cement	Used	Additives	
		ADDITIONA	U OFMENITING (OO	UEEZE DEOODD				
Purpose:	Depth		AL CEMENTING / SQ	UEEZE RECORD				
Perforate	Top Bottom	Type of Cement	# Sacks Used	# Sacks Used Type and Percent Additives				
Protect Casing Plug Back TD								
Plug Off Zone								
Shots Per Foot	PERFORATI	ON RECORD - Bridge Plu	ugs Set/Type		cture, Shot, Cement			
	Specify	Footage of Each Interval Pe	errorated	(AI	mount and Kind of Ma	ateriai Used)	Depth	
TUDING DECORD.	Si-o.	Cat Atı	Packer At:	Lines Duni				
TUBING RECORD:	Size:	Set At:	Facker At.	Liner Run:	Yes No			
Date of First, Resumed	Production, SWD or EN	HR. Producing Me		Gas Lift C	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls. Gas	Mcf Wa	ter B	bls. (Gas-Oil Ratio	Gravity	
		·						
	ON OF GAS:		METHOD OF COMPL			PRODUCTIO	ON INTERVAL:	
Vented Solo		Open Hole			nmingled mit ACO-4)			
(If vented, Sui	bmit ACO-18.)	Other (Specify)						

Form	ACO1 - Well Completion
Operator	Edison Operating Company LLC
Well Name	Kachelman 1A-36
Doc ID	1141320

All Electric Logs Run

Dual Induction
CDNL
Micro
Sonic

BASIC*

10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

FIELD SERVICE TICKET

1718 07444 A

PRESSURE PUMPING & WIRELINE 36-245-3					4W		DATE	TICKET NO			
DATE OF JOB	38.	12 [DISTRICT Pratt.	Tanso	45	NEW 19	WELL	PROD INJ	WDW	CUSTOMER ORDER NO.:	aris e
CUSTOMER	die	son (Operating Com	Dany,	LLC.	LEASE	achel	Man	anna e carretta (c. 11.) Maria y carretta (c. 11.)	WELL NO.	1A-3
ADDRESS						COUNTY 5		ord	STATE	ansas	
CITY	CITY STATE					SERVICE CF			M. Mattal: N	Lauvenc	·e
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products, and/or su become a part of th	pplies in	cludes all	execute this contract as an a of and only those terms and t the written consent of an of	conditions a	ppearing or	the front and back	of this do	cument. No addi		ns and/or condition	ns shall
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TREATMENT REPORT

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Scale 1:240 (5"=100') Imperial

Well Name: Kachelman #1A-36

Location: Sec. 36 - T24S - R14W, Stafford County, KS

Licence Number: API No.: 15-185-23782-0000 Region: Koelsch Southeast

Spud Date: December 27, 2012 Drilling Completed: January 4, 2013

Surface Coordinates: 330' FNL & 1650' FWL (NW NE NW)

Bottom Hole Coordinates:

Ground Elevation (ft): 1942'

Logged Interval (ft): 3000'

K.B. Elevation (ft): 1952'

Total Depth (ft): 4274' (LTD)

Formation: TD in Arbuckle

Type of Drilling Fluid: Chemical Gel/Fresh Water Gel

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

OPERATOR

Company: Edison Operating Company, LLC

Address: 8100 E. 22nd St. North

Building 1900 Wichita, KS 67226

GEOLOGIST

Name: Derek W. Patterson

Company: Valhalla Exploration, LLC

Address: 133 N. Glendale

Wichita, KS 67208

REMARKS

After review of the geologic log, positive DST #1 results, and the open hole logs for the Kachelman #1-36, it was decided upon by operator to run 5 1/2" production casing to further evaluate said well.

Following logging operations the Kachelman #1A-36 was deepened to a depth of 4275' (RTD)/4274' (LTD) for casing purposes.

The well samples were saved, submitted, and will be available for review at the Kansas Geologic Survey's Well Sample Library located in Wichita, KS.

Respectfully Submitted,

Derek W. Patterson

COMMENTS

Please Note: The RTD was 4270' and the LTD 4269'.

The drill time, gas curves, and DST intervals have been shifted 3' shallow/higher to correspond with the electric log curves. All connection and circulation points have also been moved to match the overall shift.

General Information

Service Companies

Drilling Contractor: Maverick Drilling - Rig #108

Tool Pusher: Jeremy Stuckey
Daylight Driller: Marvin Petz
Evening Driller: Marino Vergera
Morning Driller: Robert Stevenson

Relief: Mark Farmer

Gas Detector: Bluestem Environmental

Engineer: Sidney Edelbrock

Unit: 0279 Operational By: 1500' Drilling Fluid: Mud-Co/Service Mud Engineers: Jason Whiting

Rick Hughes

Logging Company: Nabors

Engineer: Mike Garrison

Logs Ran: DI, CDNL, Micro, Sonic

Testing Company: Trilobite Testing

Tester: Jim Svaty

Deviation Survey							
Depth	Survey						
2909'	3/4°						
4220'	1 1/4°						
RTD - 4270'	1 1/4°						

Pipe Strap					
Depth	Pipe Strap				
4113'	None Performed				

	Bit Record									
Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours		
1	12 1/4"	JZ	Rock	RR	0,	301'	301'	3.5		
2	7 7/8"	JZ	HA20QJ	K01324	301'	4113'	3812'	79.25		
3	7 7/8"	JZ	QX20J	RR	4113'	4275'	162'	10.5		

	Surface Casing
12.28.2012	Ran 7 joints of new 23 #/ft 8 5/8" casing, tallying 281', set @ 296' KB.
	Cemented with 150 sacks A Service Lite (3 % CC 1/4# Celoflake) & 150 sacks Common (3% CC, 2% gel).
	Cement did circulate.
	Plug down @ 0615 hrs 12.28.12. By Basic Energy Services.

	Production Casing	
1.5.2013	Ran 96 joint of new 25 #/ft 5 1/2" production casing, tallying 4281', set @ 4274' KB.	
1	Cemented with 135 sacks AA2.	
	Plug down @ 1445 hrs 1.5.13. By Basic Energy Services.	7



EDISON OPERATING COMPANYLLE

Daily Drilling Report

Date	7:00 AM Depth	Previous 24 Hours of Operations
1.1.2013	3594'	Drilling and connections Topeka. Geologist Derek W. Patterson on location, 1930 hrs 12.31.12. Reset Bloodhound depth to correspond with geolograph (15' behind). Resume drilling and connections Topeka. Run new line from extractor to gas detector, test with positive response. Drilling and connections Topeka, Heebner, Toronto, Douglas, and into Brown Lime. Made 782' over past 24 hrs of operations. WOB: 34k RPM: 75 PP: 850 SPM: 56 DMC: \$4,217.25 CMC: \$6,081.70
1.2.2013	4110'	Drilling and connections Brown Lime and into Lansing. CFS @ 3703' (LKC 'F'). Resume drilling and connections Lansing. Drilling and connections Lansing and into Base Kansas City. CFS @ 3879' to evaluate gas kick in Lansing 'L' zone. Resume drilling and connections Base Kansas City, Conglomerate, Kinderhook, and into Viola. Stop @ 4110' for bit trip due to poor penetration rates from worn bit. CTCH prior to bit trip. Made 516' over past 24 hrs of operations. WOB: 36k RPM: 75 PP: 900 SPM: 56 DMC: \$1,567.40 CMC: \$7,649.10
1.3.2013	4217'	CTCH prior to bit trip. Strap out for bit trip, 0745 hrs 1.2.13. TIH with new bit, CTCH, resume drilling following bit trip, 1340 hrs 1.2.13. Drilling and connections Viola and into Simpson. CFS @ 4169' (Simp) to evaluate the Simpson Sand zone. Resume drilling and connections Simpson. CFS @ 4189'. Drilling Simpson and into Arbuckle. CFS @ 4207' (Arb), CFS @ 4217' (Arb). Shows warrant test. CTCH, drop survey, TOH for DST #1, 0130 hrs 1.3.13. Made 107' over past 24 hrs of operations. WOB: 38k RPM: 75 PP: 900 SPM: 56 DMC: \$1,287.10 CMC: \$8,936.20
1.4.2013	4217'	Make up test tool. TIH with tool. Conducting DST #1, test successful. TIH with bit. Accident on rig floor involving rig hand. Tag bottom with bit. Bit plugged off, TOH for plugged bit. Clean out collar, TIH with bit. Made 0' over past 24 hrs of operations. DMC: \$1,752.35 CMC: \$10,688.55
1.5.2013	RTD - 4275' LTD - 4270'	TIH with bit. Production casing on location. TIH with bit, CTCH, run in premix, resume drilling, 1155 hrs 1.4.13. Drilling and connections Arbuckle ahead to RTD of 4270' RTD reached, 1410 hrs 1.4.13. CTCH, drop survey, TOH for open hole logging operations. Rig up loggers. Conduct open hole logging operations. Orders received to run 5 1/2" production casing for further evaluation of the Kachelman #1A-36. Geologist Derek W. Patterson off location, 1500 hrs 1.4.13. Made 50' over past 24 hrs of operations. WOB: 38-40k RPM: 65-70 PP: 900 SPM: 56 CMC: \$12,332.90
1.6.2013	RTD - 4275' LTD - 4270'	Following logging operations the Kachelman #1A-36 was deepened to a depth of 4275' (RTD) for casing purposes. Made 50' over past 24 hrs of operations. WOB: 38-40k RPM: 65-70 PP: 900 SPM: 56 CMC: \$12,332.90

Well Comparison Sheet

		Drilling Well Comparison Well							Compari	son Well			
	Edison Operating - Kachelman #1A-36 Westgate-Greenland- Kachelman #1			West	gate-Greenla		nan #2						
			24S - R14W			Sec. 36 - T24S - R14W			Sec. 36 - T24S - R14W				
	l		ENW				ENW	- 1	SWNENW				
	l				Oil - A	rbuckle		ctural	Oil - A	rbuckle	Structural		
	1952	КВ			1949			onship	1948			Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	
Topeka	3046	-1094	3043	-1091									
King Hill	3245	-1293	3242	-1290									
Queen Hill	3349	-1397	3347	-1395									
Heebner	3457	-1505	3454	-1502	3446	-1497	-8	-5	3449	-1501	-4	-1	
Toronto	3477	-1525	3474	-1522	3464	-1515	-10	-7	3469	-1521	-4	-1	
Douglas	3496	-1544	3494	-1542	3483	-1534	-10	-8	3488	-1540	4	-2	
Brown Lime	3595	-1643	3592	-1640	3583	-1634	-9	-6	3589	-1641	-2	1	
Lansing	3624	-1672	3626	-1674	3612	-1663	-9	-11	3621	-1673	1	-1	
LKC 'B'	3643	-1691	3640	-1688	3632	-1683	-8	-5	3637	-1689	-2	1	
LKC 'D'	3666	-1714	3663	-1711	3653	-1704	-10	-7	3658	-1710	-4	-1	
LKC 'F'	3694	-1742	3692	-1740	3682	-1733	-9	-7	3688	-1740	-2	0	
LKC 'G'	3711	-1759	3708	-1756	3698	-1749	-10	-7	3704	-1756	-3	0	
Muncie Creek	3747	-1795	3744	-1792	3734	-1785	-10	-7	3738	-1790	-5	-2	
LKC 'H'	3750	-1798	3747	-1795	3738	-1789	-9	-6	3742	-1794	-4	-1	
LKC 'I'	3768	-1816	3766	-1814	3757	-1808	-8	-6	3763	-1815	-1	1	
LKC 'J'	3786	-1834	3782	-1830	3775	-1826	-8	-4	3775	-1827	-7	-3	
Stark	3820	-1868	3817	-1865	3806	-1857	-11	-8	3810	-1862	-6	-3	
LKC 'K'	3828	-1876	3827	-1875	3814	-1865	-11	-10	3820	-1872	-4	-3	
Hushpuckney	3856	-1904	3854	-1902	3842	-1893	-11	-9	3845	-1897	-7	-5	
LKC 'L'	3860	-1908	3856	-1904	3848	-1899	-9	-5	3848	-1900	-8	4	
Base Kansas City	3875	-1923	3873	-1921	3862	-1913	-10	-8	3866	-1918	-5	-3	
Conglomerate	3925	-1973	3924	-1972	3916	-1967	-6	-5	3920	-1972	-1	0	
Kinderhook	3961	-2009	3964	-2012	3948	-1999	-10	-13	3949	-2001	-8	-11	
Viola	4024	-2072	4025	-2073	4009	-2060	-12	-13	4004	-2056	-16	-17	
Simpson	4164	-2212	4160	-2208	4144	-2195	-17	-13	4146	-2198	-14	-10	
Simpson Sand	4177	-2225	4173	-2221	4154	-2205	-20	-16	4158	-2210	-15	-11	
Arbuckle	4203	-2251	4204	-2252	4182	-2233	-18	-19	4185	-2237	-14	-15	
Total Depth	4270	-2318	4269	-2317	4232	-2283	-35	-34	4210	-2262	-56	-55	
**Final Total Depth	4275	-2323			4232	-2283	-40		4210	-2262	-61		

^{**} Well was deepened another 5' following logging operations for production casing purposes.

Note: DST intervals have been shifted 3' shallow/higher to correspond with the electric log curves.



Edison Operating Co. Inc.

9427 E Cross Creek Wichita KS 67206 36 24s 14w Stafford

Kachelman # 1A-36

Job Ticket: 51546

Time Off Btm:

DST#:1

ATTN: Derek Patterson Test Start: 2013.01.03 @ 05:22:00

GENERAL INFORMATION:

Formation: Simpson Sand & Arbuc

Deviated: No Whipstock: 1952.00 ft (KB) Test Type: Conventional Bottom Hole (Initial)

 Time Tool Opened: 10:15:30
 Tester:
 Jim Svaty

 Time Test Ended: 19:00:00
 Unit No:
 41

Interval: 4148.00 ft (KB) To 4220.00 ft (KB) (TVD) Corrected Reference Elevations: 1952.00 ft (KB)

Total Depth: 4220.00 ft (KB) (TVD) 4145' - 4217' 1941.00 ft (OF)

Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8734 Inside

Press@RunDepth: 1363.89 psig @ 4153.00 ft (KB) Capacity: 8000.00 psig

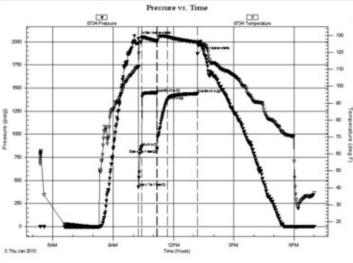
 Start Date:
 2013.01.03
 End Date:
 2013.01.03
 Last Calib.:
 2013.01.03

 Start Time:
 05:22:01
 End Time:
 18:59:49
 Time On Btm:
 2013.01.03 @ 10:15:10

TEST COMMENT: 10-IFP- BOB in 45sec.

45-ISIP- Surface Blow Died in 27min.

30-FFP- BOB in 30sec. 90-FSIP- BOB in 50sec.



T		PI	RESSUR	E SUMMARY
ı	Time	Pressure	Temp	Annotation
1	(Min.)	(psig)	(deg F)	10000000000000000000000000000000000000
1	0	2032.46	111.47	Initial Hydro-static
1	1	429.71	111.22	Open To Flow (1)
-	11	865.54	128.72	Shut-In(1)
٦.	56	1448.51	126.40	End Shut-In(1)
empe	56	834.73	126.14	Open To Flow (2)
Temperature (deg F)	86	1363.89	129.17	Shut-In(2)
(d e g	177	1439.19	126.02	End Shut-In(2)
3	177	1870.74	126.22	Final Hydro-static
-	2000	100000000000000000000000000000000000000	184.073.070	13 40 00 50 50 50 60 60 60 60 60 60 60 60 60 60 60 60 60
-				
-				
1				
-1				
- 1				

Recovery

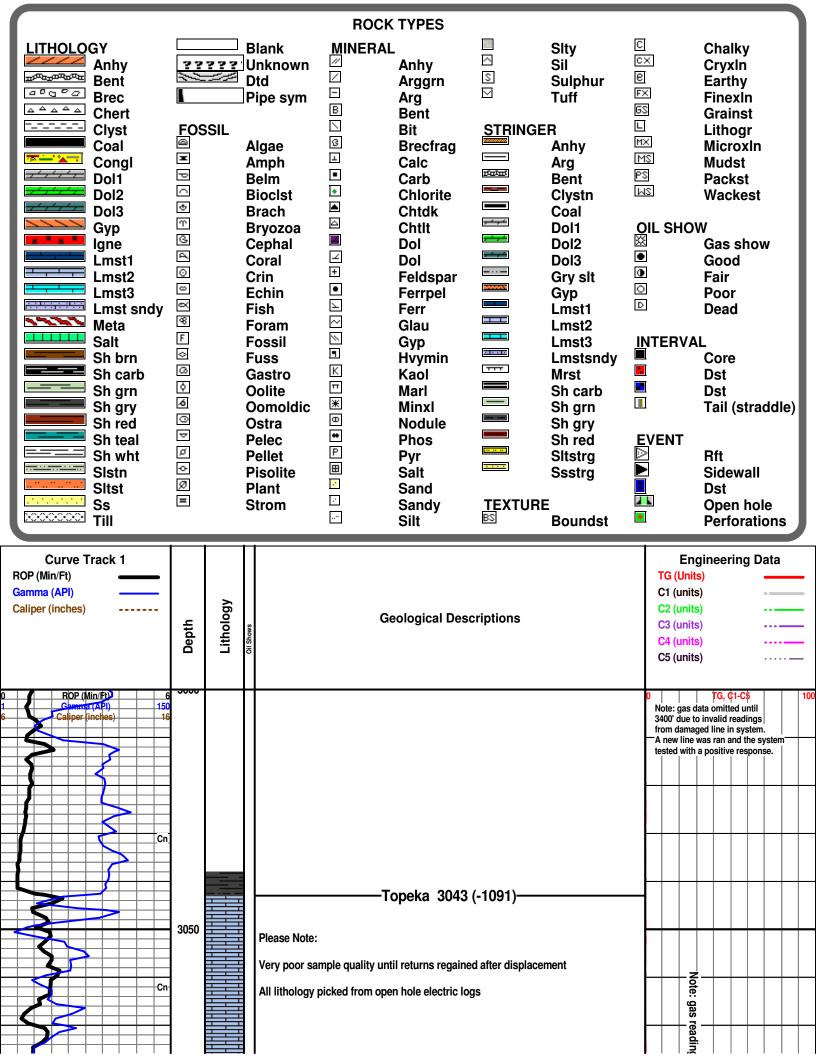
Length (ft)	Description	Volume (bbl)
448.00	Gassy Oil Speck Mud 100%	6.28
630.00	GMOO 25%g 25%m 50%o	8.84
1260.00	GO&MCW 20%g 20% o 20%m 40%w	17.67
508.00	GO&MOW 10% o 10% m 20% g 50% w	7.13
509.00	O&MOW 2%o 3%m 95%w	7.14

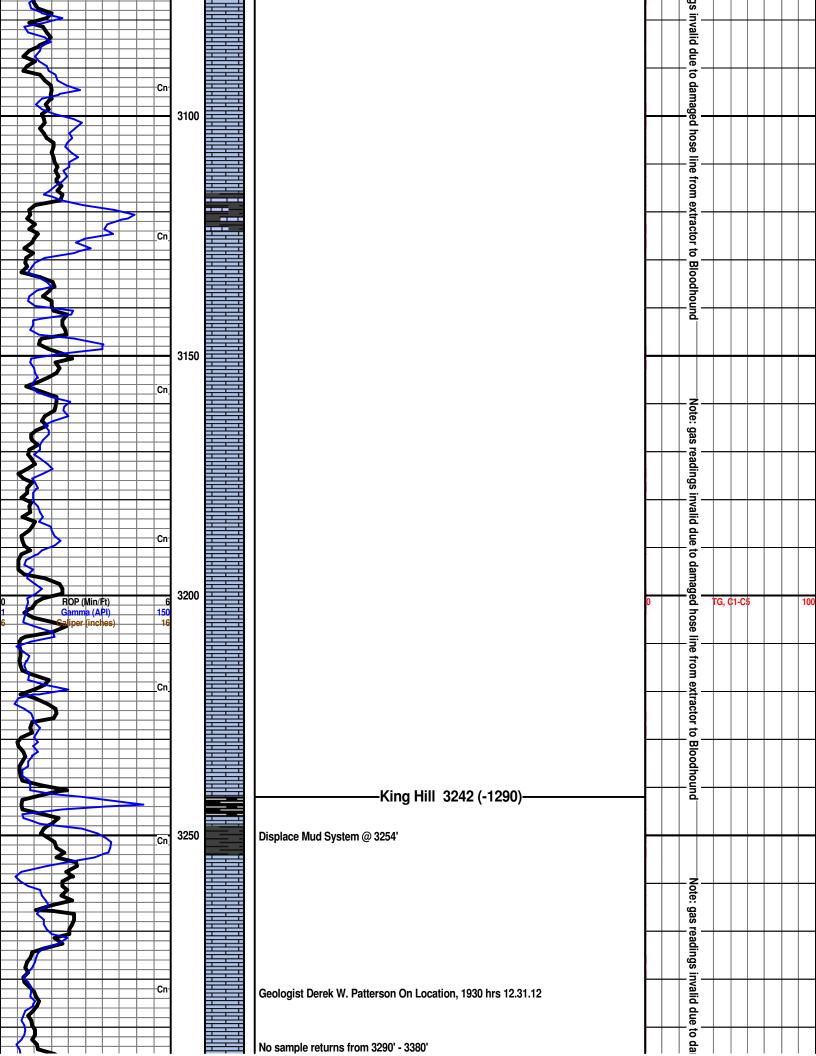
Gas Rates

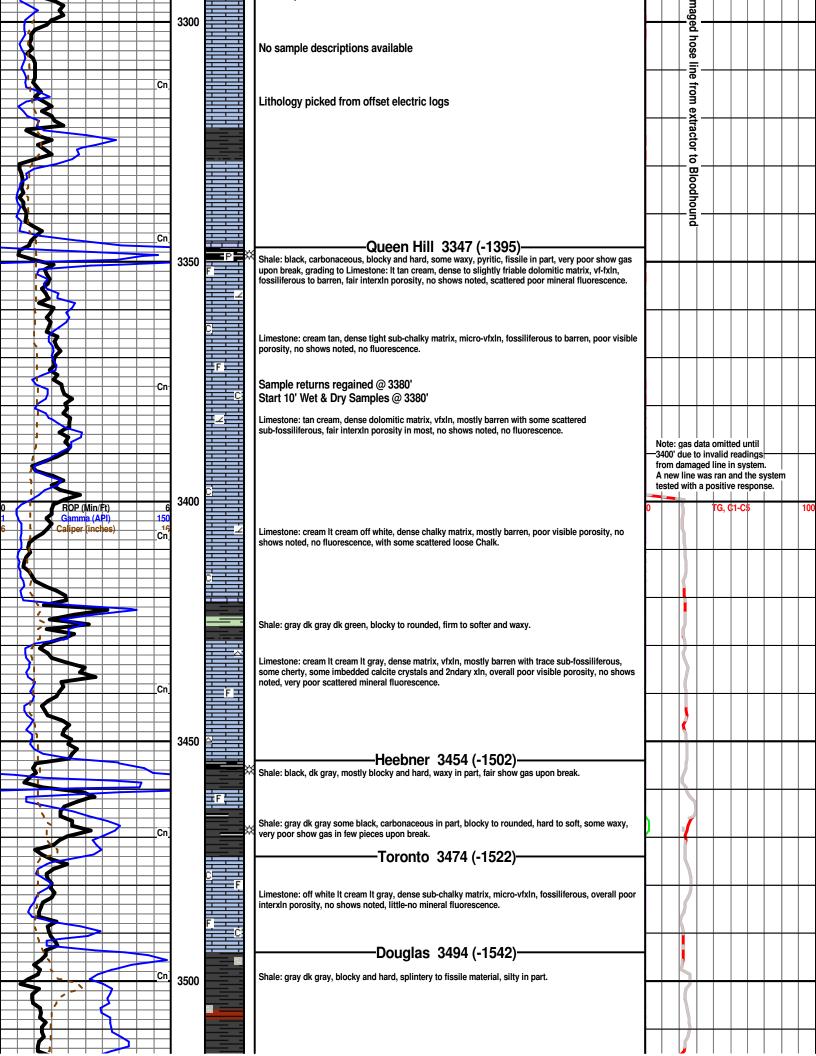
Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

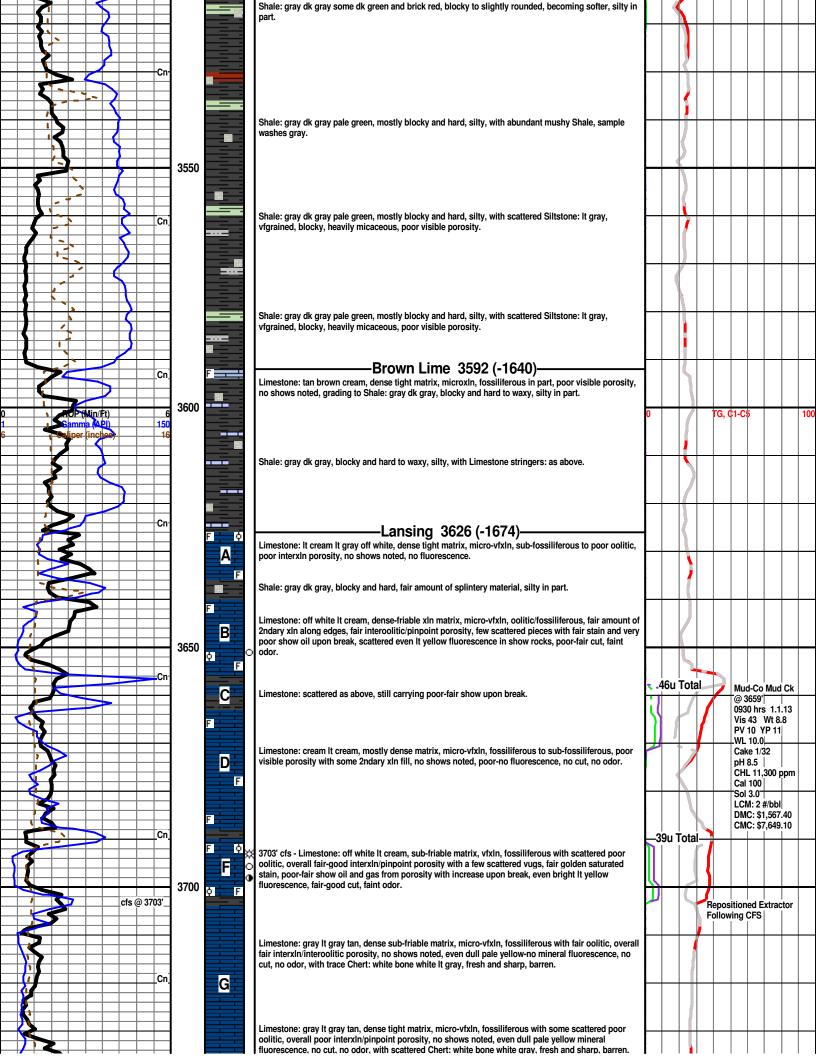
2013.01.03 @ 13:11:40

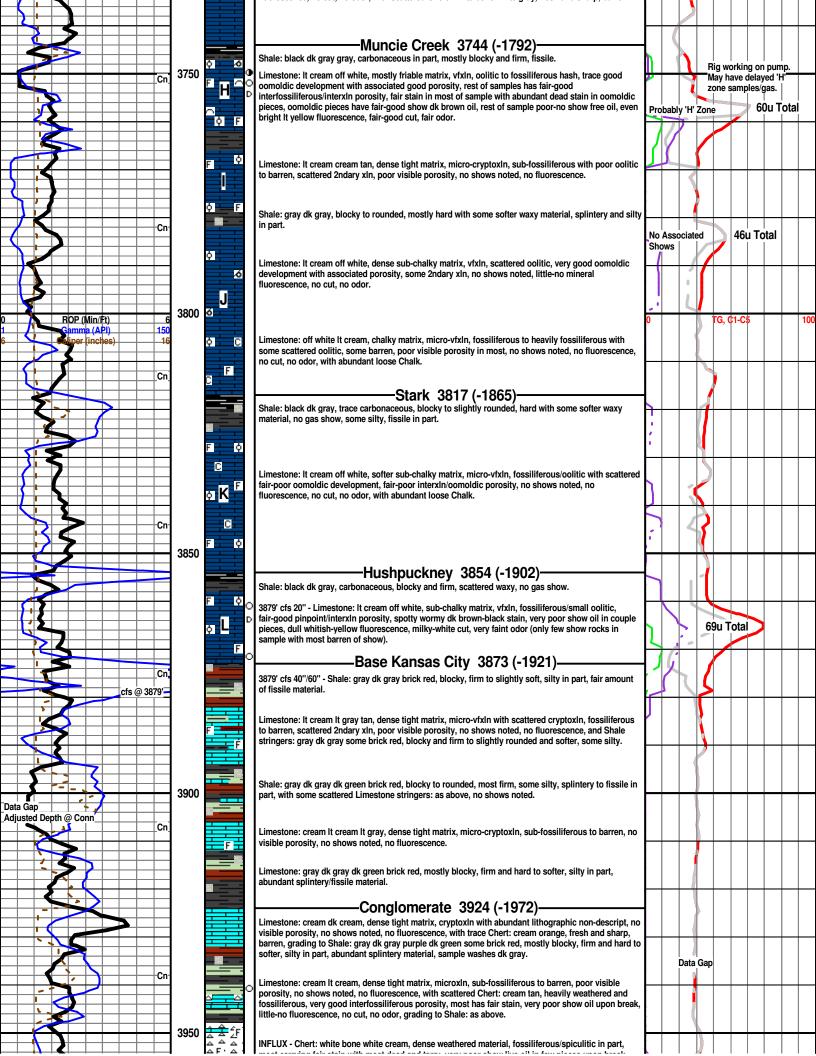
Chlorides = 52,000 ppm

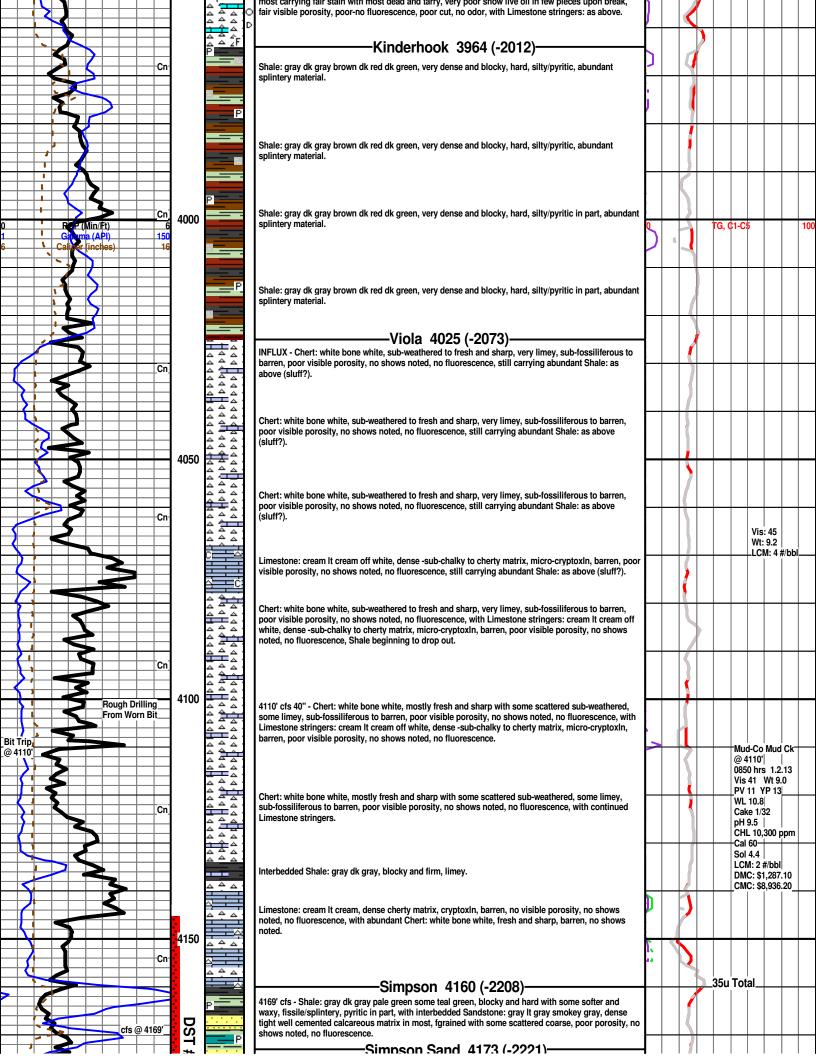


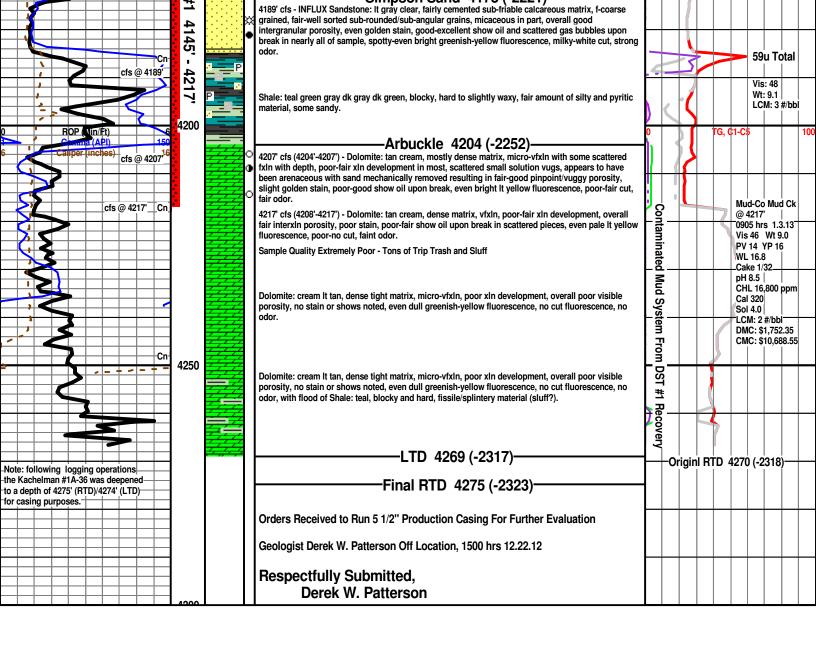














Prepared For: Edison Operating Co. Inc.

9427 E Cross Creek Wichita KS 67206

ATTN: Derek Patterson

Kachelman # 1A-36

36 24s 14w Stafford

Start Date: 2013.01.03 @ 05:22:00 End Date: 2013.01.03 @ 19:00:00 Job Ticket #: 51546 DST #: 1

Trilobite Testing, Inc PO Box 362 Hays, KS 67601

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



Edison Operating Co. Inc.

36 24s 14w Stafford

9427 E Cross Creek Wichita KS 67206 Kachelman # 1A-36

41

Reference Elevations:

Job Ticket: 51546

Unit No:

DST#: 1

ATTN: Derek Patterson

Test Start: 2013.01.03 @ 05:22:00

GENERAL INFORMATION:

Formation: Simpson Sand & Arbuc

Deviated: No Whipstock: 1952.00 ft (KB) Test Type: Convo

Time Tool Opened: 10:15:30 Time Test Ended: 19:00:00

Interval:

4148.00 ft (KB) To 4220.00 ft (KB) (TVD)

Total Depth: 4220.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)
Tester: Jim Svaty

1952.00 ft (KB) 1941.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8734 Inside

Press@RunDepth: 1363.89 psig @ 4153.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2013.01.03
 End Date:
 2013.01.03
 Last Calib.:
 2013.01.03

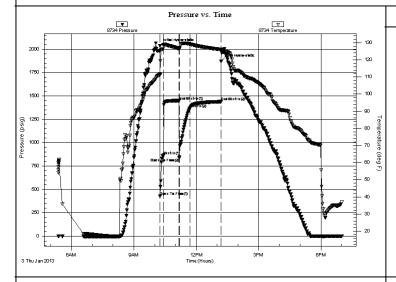
 Start Time:
 05:22:01
 End Time:
 18:59:49
 Time On Btm:
 2013.01.03 @ 10:15:10

 Time Off Btm:
 2013.01.03 @ 13:11:40

TEST COMMENT: 10-IFP- BOB in 45sec.

45-ISIP- Surface Blow Died in 27min.

30-FFP- BOB in 30sec. 90-FSIP- BOB in 50sec.



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2032.46	111.47	Initial Hydro-static
1	429.71	111.22	Open To Flow (1)
11	865.54	128.72	Shut-In(1)
56	1448.51	126.40	End Shut-In(1)
56	834.73	126.14	Open To Flow (2)
86	1363.89	129.17	Shut-In(2)
177	1439.19	126.02	End Shut-In(2)
177	1870.74	126.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
448.00	Gassy Oil Speck Mud 100%	6.28
630.00	GMCO 25%g 25%m 50%o	8.84
1260.00	GO&MCW 20%g 20% o 20%m 40%w	17.67
508.00	GO&MCW 10%o 10%m 20%g 50%w	7.13
509.00	O&MCW 2%o 3%m 95%w	7.14

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Edison Operating Co. Inc.

36 24s 14w Stafford

9427 E Cross Creek Wichita KS 67206 Kachelman # 1A-36

Job Ticket: 51546

DST#: 1

ATTN: Derek Patterson Test Start: 2013.01.03 @ 05:22:00

GENERAL INFORMATION:

Formation: Simpson Sand & Arbuc

Deviated: No Whipstock: 1952.00 ft (KB)

Time Tool Opened: 10:15:30 Time Test Ended: 19:00:00

Interval: 4148.00 ft (KB) To 4220.00 ft (KB) (TVD)

Total Depth: 4220.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)
Tester: Jim Svaty

Unit No: 41
Reference Elevations:

1952.00 ft (KB)

1952.00

1941.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8322 Outside

Press@RunDepth: psig @ 4153.00 ft (KB) Capacity: 8000.00 psig

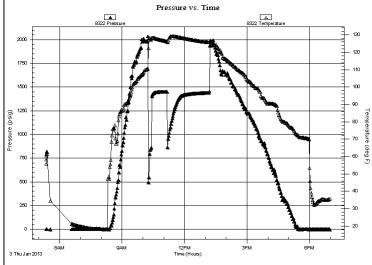
Start Date: 2013.01.03 End Date: 2013.01.03 Last Calib.: 2013.01.03

Start Time: 05:22:01 End Time: 18:59:30 Time On Btm: Time Off Btm:

TEST COMMENT: 10-IFP- BOB in 45sec.

45-ISIP- Surface Blow Died in 27min.

30-FFP- BOB in 30sec. 90-FSIP- BOB in 50sec.



PRESSURE SUMMARY

1	Time	Pressure	Temp	Annotation
			iemb	Annotation
	(Min.)	(psig)	(deg F)	
,				
.				
:				
,				

Recovery

Length (ft)	Description	Volume (bbl)
448.00	Gassy Oil Speck Mud 100%	6.28
630.00	GMCO 25%g 25%m 50%o	8.84
1260.00	GO&MCW 20%g 20% o 20%m 40%w	17.67
508.00	GO&MCW 10%o 10%m 20%g 50%w	7.13
509.00	O&MCW 2%o 3%m 95%w	7.14

Gas Rates

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

Edison Operating Co. Inc.

36 24s 14w Stafford

9427 E Cross Creek Wichita KS 67206

Kachelman # 1A-36

Job Ticket: 51546

DST#: 1

0.00 ft

ATTN: Derek Patterson

Test Start: 2013.01.03 @ 05:22:00

Tool Information

Drill Pipe: Length: 4148.00 ft Diameter: Heavy Wt. Pipe: Length: 0.00 ft Diameter: Drill Collar: Length: 0.00 ft Diameter: 3.80 inches Volume: 58.19 bbl 2.75 inches Volume: 0.00 bbl 2.25 inches Volume: 0.00 bbl Tool Weight: 2500.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 70000.00 lb

Drill Pipe Above KB: 27.00 ft Depth to Top Packer: 4148.00 ft Total Volume: 58.19 bbl Tool Chased String Weight: Initial 55000.00 lb

Depth to Bottom Packer: ft Final 68000.00 lb

Interval between Packers: 72.00 ft Tool Length: 99.00 ft

Number of Packers: 2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4126.00		
Hydraulic tool	5.00			4131.00		
Jars	5.00			4136.00		
Safety Joint	2.00			4138.00		
Packer	5.00			4143.00	27.00	Bottom Of Top Packer
Packer	5.00			4148.00		
Stubb	1.00			4149.00		
Perforations	3.00			4152.00		
Change Over Sub	1.00			4153.00		
Recorder	0.00	8734	Inside	4153.00		
Recorder	0.00	8322	Outside	4153.00		
Blank Spacing	63.00			4216.00		
Change Over Sub	1.00			4217.00		
Bullnose	3.00			4220.00	72.00	Bottom Packers & Anchor

Total Tool Length: 99.00



FLUID SUMMARY

DST#: 1

Edison Operating Co. Inc. 36 24s 14w Stafford

9427 E Cross Creek Wichita KS 67206

Kachelman # 1A-36

Job Ticket: 51546

Test Start: 2013.01.03 @ 05:22:00

Mud and Cushion Information

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

Cushion Length: Mud Weight: 9.00 lb/gal Water Salinity: 52000 ppm ft

Viscosity: 46.00 sec/qt Cushion Volume: bbl

Water Loss: 16.77 in³ Gas Cushion Type:

Resistivity: Gas Cushion Pressure: ohm.m psig

16800.00 ppm Salinity: Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
448.00	Gassy Oil Speck Mud 100%	6.284
630.00	GMCO 25%g 25%m 50%o	8.837
1260.00	GO&MCW 20%g 20% o 20%m 40%w	17.674
508.00	GO&MCW 10%o 10%m 20%g 50%w	7.126
509.00	O&MCW 2%o 3%m 95%w	7.140

Total Volume: 47.061 bbl Total Length: 3355.00 ft

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

Laboratory Name: Laboratory Location:

Recovery Comments: .343 @ 30



GAS RATES

Edison Operating Co. Inc.

ATTN: Derek Patterson

36 24s 14w Stafford

9427 E Cross Creek Wichita KS 67206

Kachelman # 1A-36

Job Ticket: 51546

DST#: 1

Test Start: 2013.01.03 @ 05:22:00

Gas Rates Information

Temperature: 59 (deg F)

Relative Density: 0.65 Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
		0.00	0.00	0.00

