



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1079080  
OIL & GAS CONSERVATION DIVISION

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 # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       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:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

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: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

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: \_\_\_\_\_

1079080

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing    Pumping    Gas Lift    Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Raydon Exploration, Inc.
Well Name	Scantlin 4-23
Doc ID	1079080

All Electric Logs Run

MICROLOG
DUAL SPACED NEUTRONSPECTRAL DENSITY LOG
BOREHOLE COMPENSATEDSONIC ARRAY LOG
ARRAY COMPENSATEDTRUE RESISTIVITY LOG
RADIAL CEMENT BOND LOG

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/>

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

April 18, 2012

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

Re: ACO1  
API 15-175-22195-00-00  
Scantlin 4-23  
SE/4 Sec.23-32S-32W  
Seward 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



# GEOLOGIST'S REPORT

DRILLING TIME & SAMPLE LOG

COMPANY **RAYDON EXPLORATION, INC.**

LEASE **SCANTLIN** NO. **4-23**

LOCATION **990FSL & 1650FEL**

SEC. **23** TWP. **32S** RNG. **32W**

COUNTY **SEWARD**, STATE **KANSAS**

FIELD **FEDDER**

CONTRACTOR **TOMCAT DRUG. RIG NO. 4**

COMM. **1-13-2012** COMP. **1-21-2012**

RTD **4485** LTD **4484**

No. of DST'S **NONE** No. of CORES **NONE**

SAMPLES SAVED FROM **4000** TO **TD**

DRILLING TIME KEPT FROM **4000** TO **TD**

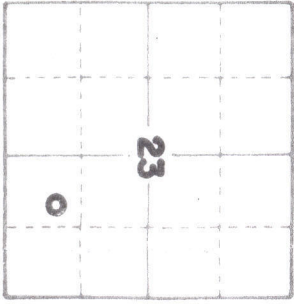
SAMPLES EXAMINED FROM **4000** TO **TD**

GEOLOGICAL SUPERVISION FROM **4000** TO **TD**

GEOLOGIST ON WELL **EDWIN H. GRIEVES**

FORMATION TOPS

	SAMPLE	LOG	SURSEA
BASE HEEBNER	4250	4250	-1430
TORONTO	4262	4256	-1436
LANSING	4351	4352	-1532
TD	4485	4484	



ELEVATIONS

KB **2820**

DF **2818**

GL **2809**

MEASUREMENTS ARE ALL FROM **KB**

5 CASING RECORD  
8 7/8" dt **1645** w/ / sx.

dt w/ / sx.

dt w/ / sx.

dt w/ / sx.

EL. LOG **A.C.T.R.E.S.G.R.S.P**  
**DEN-NEUTGR-CALIPER**  
**ML-SONIC**

MARKS **Earth-Tech (1-888-543-8378) had an unmanned gas detection trailer on this well from 4000 feet to total depth.**

*Thank you  
in H. Grievess*



LIMESTONE  
SHALE  
CHERT

DOLOMITE  
GRANITE WASH  
ANHY & GYP

HOT WIRE BY  
TOTAL GAS VOLUME

C5 = BUTANE  
C6 = ISOPENTANE  
C7 = PENTANE

RILL TIME  
SCALE  
5 10 15

SAMPLE DESCRIPTION

GAS SCALE

10 100 1000

Interbedded/or Gradational Lmsts + Shs  
1. Lms. H. to med. gry; crypto. to v.v. fn. xln  
v. to extaly, shly gradng. to extaly calc  
Shs; sub-chlk; or shly. trs. sub-micro spars shs;  
No fluor; No cut; No Vis for  
2. Lms. H. gry, grayish tan to tan; crypto. to  
v.v. fn. xln; trs. sub-chlk, sub-sucro + pack str  
dul. yel. to trs. yel. fluor; No cut; No Vis for  
3. Sh. trs. H. + med. gry; very to extaly  
calc. lps; gradng to extaly shly. Lmsts.

Interbedded/or Gradational  
Lmsts + Shs similar 4000-4046  
w/abn. Sh. v. drk. gry. to black

Lms. + Shs similar 4000-4046  
w/ Shs. Predominate with  
Additional Shs med gry to trs  
olive greenish gry; sl. to extaly  
silty for sl. to extaly calc

Sh. drk. to v. drk. gry. - calc lps to  
black - carb

Lms. trs. to abn. wht. to crm. - chlk  
and tan; sl. to very gryish. lps;  
crypto. to v.v. fn. xln; sub-chlk  
sub-sucro + pack str; dul. yel. to yel.  
fluor; No cut; No Vis. for.

Lms. tan; crypto. to v.v. fn. xln;  
trs. sub-chlk, sub-sucro to sucro; dul. yel  
to trs. yel. fluor; No cut; trs poor  
micro-pp por. w/ poss. interxln for lps

Lms. similar 4117-4178

4000

4100

4200

WGB  
RPM  
SPM  
PP  
40000  
90-100  
63  
900

24U??  
23U??

BLK. SH. GIU

C/S 2 1

C/S 2 1

=C

=C

=C

=C

=C

=C



Sh v. drk. gray to black-carb.,  
sli to fly calc.

Lms. H. to tan med. gray; sli to v. shly.  
crypto. to v. v. fn. xln.; tes sub-chlk,  
sub-sucro + packstn.; dul. yel. fluor.  
H. yel. fluor.; No cut; No Vis Por

Lms. similar 4231-4441 w/ tes  
sh lt gray. to H. green

Lms. tes. to abn. wht. to cream-chlk  
and tan, grayish. IP's to tes. H. gray;  
crypto. to v. v. fn. xln.; sub-chlk, sub-sucro  
+ packstn.; phantom oolitic IP's  
to huy. tes. oolitic; dul. H. yel. to  
H. yel. fluor.; No cut; No Vis Por.

Lms. grayish. tan to tanish gray; crypto  
to v. v. fn. xln.; sub-chlk, sub-sucro,  
+ packstn.; v. dul. H. yel. fluor.; No cut  
No Vis Por

Sh med to tes drk. gray v. to extrdy  
calc. grading. to shly Lmsts.

Lms. H. to med. gray, tanish IP's to test tan;  
sli. to extrdy. Shly. IP's grading. to calc. Shs.;  
sub-chlk, sub-sucro. + packstn.;  
tes. dul. H. yel. fluor.; No cut  
No Vis Por

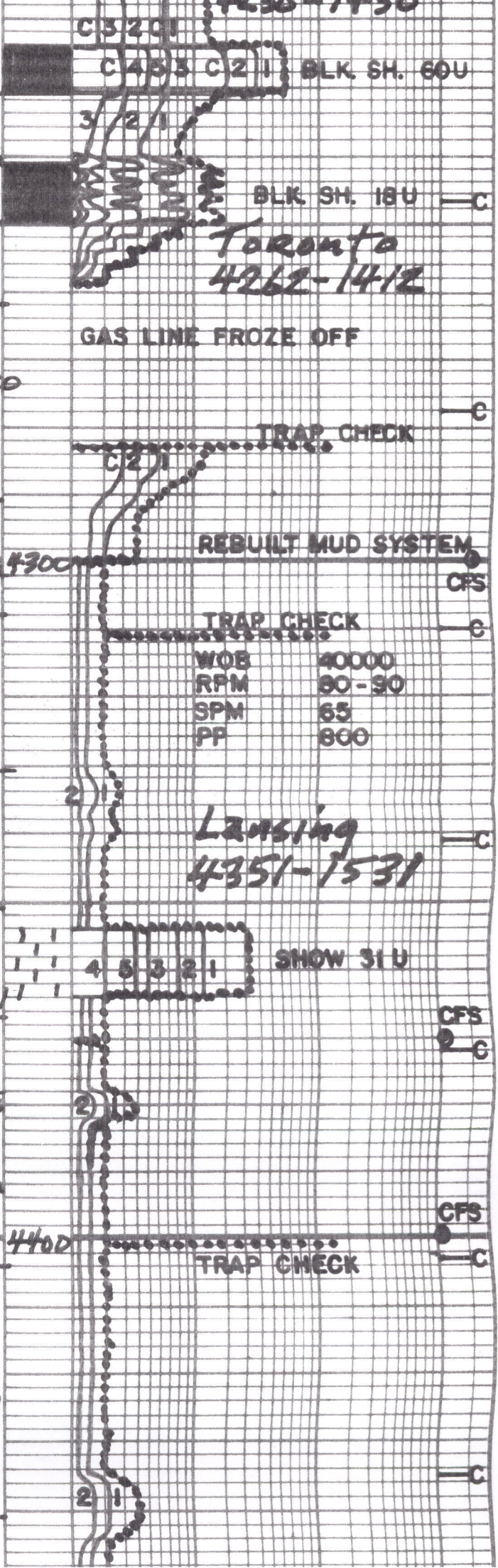
Lms. extra. abn. wht. to cream-chlk  
H. tan; crypto. to v. v. fn. xln.; tes sub-chlk and  
sub-sucro to extrdy. sucro.; tes. foss.;  
gh. oil ock; spt. to oil stn. 179, w/ yel  
fog/dn. yel. fluor.; w/ flush, miltay + excel  
Ring cuts; abn. frag. to excel.  
m. l. x. o. p. a. + inter. sh. por.;  
tes. to huy. tes. chert; H. gray to tan  
foss. IP's; opaque

4267-4405 Interbed. % or Gradational Lmsts  
1. Lms. H. med to drk. gray; sli to extrdy. Shly;  
crypto. xln.; sub-chlk + oolitic + packstn.  
No fluor.; No cut; No Vis Por.  
2. Lms. H. gray, tan to drk. tan; crypto to v. v. fn.  
xln.; sub-chlk, sub-sucro, packstn. and  
sub-lithogr. IP's; dul. H. yel. fluor. IP's

No cut; No Vis Por  
3. sli. Fastac. Dalg. tes to huy. tes wht  
to cream-chlk  
4. H. to huy. tr. Chert gray to tan; opaque

4405-4441 Lms. med. gray; crypto  
to sli. tes v. v. fn. xln.; tes sub-chlk,  
tes. sub-sucro, and packstn.; v. dul. yel  
fluor.; No cut; No Vis Por

Lms. abn. wht to cream-chlk and tan  
v. v. fn. xln.; sub-sucro to sucro.





abu. fr, gd to excel. p.p. microsp  
 + interxlypor, w/majority of  
 sample lms similar 4405-4441

Lms. similar 4405-4441

## TD 4485

7/8 inch Bit Info:

#1 New Badger-Hughes GX286  
 in at 1662 out at 4485 TD

Dev. Surv.

- |              |                    |
|--------------|--------------------|
| 1. 614 1°    | 4. 3121 2 1/2° ??? |
| 2. 1662 2°   | 5. 3284 3/4°       |
| 3. 2109 1/2° | 6. 4485 1° TD      |

Cir Points

1. 4300
2. 4370
3. 4400
4. 4485 TD

Daily Drlg Progress

1. 4000 At 8:41 PM 1-19-2012
2. 4240 At 7:00 AM 1-20-2012
3. 4485 At 7:00 AM 1-21-2012

No DST's Were Run

Mud Info:

Date	1-19 2:30P	1-20 2:30P	1-21 Noon
Depth	3876	4309	4485
Wt.	9.1	8.9	9.0
Vis	38	60	55
PV	7	20	18
YP	7	15	16
ES	5/8	10/14	12/14
WL	14	6.5	6.5
Cake	2/32	1/32	1/32
pH	8.5	11.0	11.0
chl	3500	2000	1800



Customer <i>Raydon Exploration</i>		Lease No.		Date <i>1-22-12</i>	
Lease <i>Scantlin</i>		Well # <i>4-23</i>		Service Receipt <i>1717 02511</i>	
Casing <i>4 1/2 10.5</i> Depth		County <i>Seward</i>		State <i>Ks</i>	
Job Type <i>242 Long String</i>		Formation		Legal Description <i>23 - 32 - 32</i>	
<b>Pipe Data</b>			<b>Perforating Data</b>		<b>Cement Data</b>
Casing size <i>4 1/2 10.5</i>		Tubing Size		<b>Shots/Ft</b>	
Depth <i>4484.67</i>		Depth		From To	
Volume <i>.01596611</i>		Volume		From To	
Max Press <i>3832</i>		Max Press		From To	
Well Connection <i>8rd</i>		Annulus Vol.		From To	
Plug Depth <i>4442.57</i>		Packer Depth		From To	
Lead		<i>See Callsheet</i>			
Tail in					
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>00:30</i>					<i>on Loc. w/ F.E.</i>
<i>01:55</i>					<i>Held Safety Meeting</i>
<i>02:10</i>					<i>Start Csg. + F.E.</i>
<i>02:15</i>					<i>Trucks on Loc.</i>
<i>02:20</i>					<i>Held Safety Meeting</i>
<i>05:20</i>					<i>Csg. on Bottom Cir. w/ Rig</i>
<i>06:04</i>	<i>3000</i>				<i>Test Pump + Lines</i>
<i>06:06</i>	<i>200</i>		<i>5</i>	<i>4</i>	<i>Start fresh H<sub>2</sub>O</i>
<i>06:08</i>	<i>200</i>		<i>12</i>	<i>4</i>	<i>Start Superflush II</i>
<i>06:11</i>	<i>200</i>		<i>5</i>	<i>5</i>	<i>Start fresh H<sub>2</sub>O</i>
<i>06:13</i>	<i>+</i>				<i>Shutdown + Knock Loose</i>
<i>06:16</i>	<i>100</i>		<i>5</i>	<i>2.5</i>	<i>Plug Mouse Hole w/ 20sk @ 15'</i>
<i>06:23</i>	<i>100</i>		<i>8</i>	<i>3.5</i>	<i>Plug Rat Hole w/ 30sk @ 13'</i>
<i>06:25</i>					<i>Shutdown + Hook up to pipe</i>
<i>06:29</i>	<i>450</i>		<i>52</i>	<i>6.5</i>	<i>Start Load CMT 100sk @ 11.4'</i>
<i>06:37</i>	<i>350</i>		<i>27</i>	<i>6</i>	<i>Start Tail Cmt 100sk @ 14.8'</i>
<i>06:45</i>					<i>Shutdown + Wash up</i>
<i>06:47</i>					<i>Drop Plug</i>
<i>06:49</i>	<i>200</i>		<i>0</i>	<i>7</i>	<i>Start Disp. w/ fresh H<sub>2</sub>O</i>
<i>06:57</i>	<i>700</i>		<i>68</i>	<i>4</i>	<i>Slow Rate</i>
<i>06:58</i>	<i>2000</i>		<i>71</i>	<i>4</i>	<i>Bump Plug</i>
<i>06:59</i>	<i>+</i>			<i>0</i>	<i>Release / float held</i>
<i>07:00</i>					<i>End Job PSI Before Plug landed 750'</i>
Service Units	<i>21755</i>	<i>2780819843</i>	<i>1475419578</i>		
Driver Names	<i>Cochran</i>	<i>Mendoza</i>	<i>Grijalva</i>		

T. Thompson  
Customer Representative

J. Bennett  
Station Manager

M. Cochran  
Cementer



### Cement Report

Customer	Raydon Exploration		Lease No.	Date 11-15-12	
Lease	Scantlin		Well #	4-73	
Casing	8 5/8	Depth	1652	County	Seward
State	KS		Job Type	Surface	
Formation			Legal Description		

Pipe Data		Perforating Data		Cement Data
Casing size	8 5/8	Tubing Size		Lead 400sx A-Com @ 11.4
Depth	1647.88	Depth	From To	2.95 cu/ft @ 18.1 gals
Volume	102.11	Volume	From To	Tail in 150sx 7.7m @ 14.8 ft
Max Press	1500	Max Press	From To	1.34 cu/ft @ 6.33 gals
Well Connection	P.C.	Annulus Vol.	From To	
Plug Depth		Packer Depth	From To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
07:00					on loc, spot trucks, R.U., Safety net
11:22	2000				Psi test
11:25	90		0	5	Start mixing
12:20	40		20	64	switch to tail
12:30	0		36	-	Shut down, Prop plug
12:40	0		0	4-6	Start disp, wash up on plug.
13:03	400		92	2	slow Rate
13:08	400-900		102	-	Plug Down
13:10	900-0				Release Psi, Float held
					No Ret. to surface, wait for cement
16:15					Run in 1"
16:40			0	3	St mix @ 14.5" 200sx
16:57			45		Shut Dr, Wash UP
					Job Complete
					Thank you
					Chack Crew

Service Units	194566	39723 39726	30064 19808	19526 19553
Driver Names	CA.12	R. Olds	D. Canada	K. Baker

Tim Thompson  
Customer Representative

Samy Bennett  
Station Manager

Chack Hinz  
Cementer