

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1258343
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: _____

1258343



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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No 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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



Cement or Acid Field Report
 Ticket No. **2329**
 Foreman Steve Mead
 Camp Eureka KS

15-015-24052

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
6-20-15	10341	Logsdan #1	31	29S	5E	Butler	KS
Customer			Unit #	Driver	Unit #	Driver	
Range Oil Company Inc			104	Alan M.			
Mailing Address			110	Dave G.			
City							
Wichita							
State							
KS							
Zip Code							
67878							

Job Type Surface Hole Depth 210' Slurry Vol. _____ Tubing _____
 Casing Depth 200' GL Hole Size 12 1/4 Slurry Wt. _____ Drill Pipe /
 Casing Size & Wt. 8 3/4 Cement Left in Casing 15' Water Gal/SK _____ Other _____
 Displacement 12 1/4 Displacement PSI _____ Bump Plug to _____ BPM _____

Remarks: Safety Meeting: Rig up to 8 3/4 casing. Break circulation w/ 5 bbls fresh water. Mix 135 sks Class A cement w/ 3% CaCl2, 1/4" Flo-Seal per sk. Displace w/ 12 1/4 bbls Freshwater. Shut well in. Good cement returns to surface. 10 bbls trip it. Job complete Rig down

Thank you

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C101	1	Pump Charge	840.00	840.00
C107	30	Mileage	3.95	118.50
C200	135 sks	Class A Cement	15.00	2025.00
C205	380 ^{gal}	CaCl2 3%	.60	228.00
C209	35 ^{lb}	Flo-seal	2.25	78.75
C108A	6.35	Ten Mileage Bulk Truck	m/c	345.00
C413	1	8 3/4 Wood Plug	80.00	80.00
C506	2	8 3/4 Centralizer	65.00	130.00
			SubTotal	3845.25
			Sales Tax	162.67
Authorization <u>Cotton</u> Title _____ Total				4007.92

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



O P Y

Cement or Acid Field Report
 Ticket No. **2341**
 Foreman Rick Ledford
 Camp Eureka Ks

API # 15-015-24052

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
6-25-15	1034	Lagsdon # 1	31	29S	5E	Butler	Ks
Customer			Unit #	Driver	Unit #	Driver	
Range Oil Company Inc			105	Dave G.			
Mailing Address			113	Chris B.			
P.O. Box 781725							
City	State	Zip Code					
Wichita	Ks	67228					

Job Type DTA Hole Depth 3286' Slurry Vol. _____ Tubing _____
 Casing Depth _____ Hole Size 7 7/8" Slurry Wt. 14 # Drill Pipe 4 1/2"
 Casing Size & Wt. _____ Cement Left in Casing _____ Water Gal/SK 6.5 Other _____
 Displacement _____ Displacement PSI _____ Bump Plug to _____ BPM _____

Remarks: Safety meeting - Rig up to drill pipe. Plugging orders as follows:
35 sks @ 3274'
35 sks @ 251'
20 sks @ 60' to surface
20 sks @ cat hole
110 sks total
Thank You

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C103	1	Pump Charge	1050.00	1050.00
C107	30	Mileage	3.95	118.50
C203	110 sks	60/40 Pozmix cement	12.75	1402.50
C206	380 #	4% gel	.20	76.00
C108A	4.73	tax mileage bulk tax	m/c	345.00
			Subtotal	2992.00
			6.46% Sales Tax	94.62

Authorization Witnessed by Cotton Title Talpashe C&A Dir. Total 3086.62

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

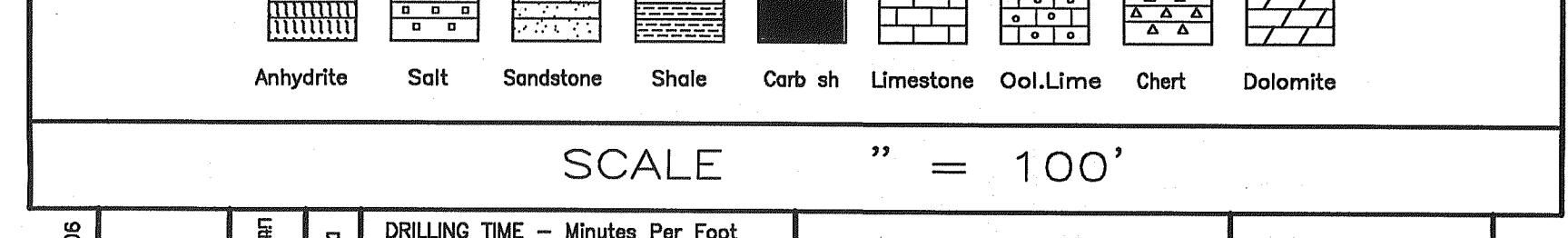
GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>Range Oil Company, Inc.</u> LEASE <u>Logsdon #1</u> FIELD <u>Logsdon #1</u> LOCATION <u>L700 Esl, 1500' FCL SE 1/4</u> SEC <u>31</u> T15P <u>29 S</u> R0E <u>5 E</u> COUNTY <u>Butler</u> STATE <u>Ks</u> CONTRACTOR <u>C&G Drilling, Rig #1</u> SPUD <u>6-20-15</u> COMP <u>6-26-15</u> RTD <u>3286'</u> LTD <u>No Log Run</u> MUD UP <u>1800'</u> TYPE MUD <u>Clay</u> ELECTRICAL SURVEYS <u>None</u>	ELEVATIONS KB <u>1273'</u> DF _____ GI <u>1247'</u> MEASUREMENTS ARE ALL FROM <u>KB</u> CASING SURFACE <u>5628' RTD</u> PRODUCTION <u>None</u>																
SAMPLES SAVED FROM _____ TO _____ RTD DRILLING TIME KEPT FROM <u>2400'</u> TO _____ RTD SAMPLES EXAMINED FROM <u>2500'</u> TO _____ RTD GEOLOGICAL SUPERVISION FROM <u>2500'</u> TO _____ RTD GEOLOGIST ON WELL <u>Ka. Walshee</u>	FORMATION TOPS LOG SAMPLES <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Kearney City</td> <td style="width: 50%;">2193 (-132) Drilling</td> </tr> <tr> <td>Atterden</td> <td>2577 (-1244)</td> </tr> <tr> <td>Cherokee Sh</td> <td>2639 (-1366)</td> </tr> <tr> <td>Chickasha Sand</td> <td>2738 (-1453)</td> </tr> <tr> <td>Evros</td> <td>2816 (-1537)</td> </tr> <tr> <td>Solid Miss</td> <td>2826 (-1553)</td> </tr> <tr> <td>Kinderhook</td> <td>3170 (-1897)</td> </tr> <tr> <td>Arbuckle</td> <td>3286 (-2003)</td> </tr> </table>	Kearney City	2193 (-132) Drilling	Atterden	2577 (-1244)	Cherokee Sh	2639 (-1366)	Chickasha Sand	2738 (-1453)	Evros	2816 (-1537)	Solid Miss	2826 (-1553)	Kinderhook	3170 (-1897)	Arbuckle	3286 (-2003)
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REMARKS
 Negative DST results - Plugged & Abd
 6-19-15 MIRT
 6-20-15 10 AM started drlg
 6-21-15 7:30 AM Drlg @ 968'; set 208' of 85% surf casing; 1/2" @ 210' # 838
 6-22-15 8 AM PTD 2500' - making bit trip; 1/2" @ 2420'
 6-23-15 8:30 AM PTD 2771' - preparing for DST #1 2716-2771'
 6-24-15 8 AM Drlg @ 2566'; 1/2" @ 2771' DST # Rec 5' mud
 6-25-15 7:40 AM Drlg @ 2722'; repairing mud pump
 6-26-15 7 AM, RTD 3286', To PDA

LEGEND



SCALE " = 100'

DEPTH	Lithology	DRILLING TIME - Minutes Per Foot Rate of Penetration Decreases	SAMPLE DESCRIPTIONS	REMARKS
2400				B/KC 2420 (-1155)
20				
40				
60				
80			Sh, bl, gy, sl, fss, pyr	
			sh, gy, sm lt gy, vfgd, ss, silty	
2500			BIT TRIP @	
20			sh, gy, gummy	Mm 2517 (-1244)
40			Ls, buff-tan, vool, fss, cky, NS	
60			Ls, AA w/ broodits, fss, NS	
80			SS, lt gy, vfgd, calc, NS	
			AA, fgd, w/ sh, lt gy	
2600			sh, gy, red; ss AA	
40			SS, md gy, f-vfgd, s/p tex, carb frg, cal, trnd/ srt'd, NS	
60			sh, bl-dk gy, fss, carb, lamin	
80			Ls, tan-lt brn, fxl, dse cky, i/p, NS	
			sh, dk gy, fss, pyr	
2700			Ls, tan, dse sm argl ls	
40			sh, bl, carb	Cherokee Sh 2639 (-1366)
60			Ls, buff-tan, fxl, cky, NS	
80			sh, gy, sm gy, bl	
			Ls, lt brn, fxl, cky, NS	
2800			sh, gy, lt grn, sm red	
40			SS, lt grn/gy, vfgd, silty	
60			sh, gy, lt grn, fss, silty, SS AA	
80			sh, gy, dk gy, sm red, fss, sm pyr	
			AA, silty	
2900			sh, gy, sm red	
40			Ls, buff-tan, fxl, dse sl cky, NS	
60			SS, lt gy, vfgd, fss, trnd, NS, No, NF	
80			SS, lt gy, fgd, s/p tex, pstd, trnd, sl ad, tr fgs, NS, NF	
			SS, AA, 60% (d) gd FL, SS FO, gd od, calc	
			2761-15" sh, bl, SS AA (5%)	
			30" AA, less SS	
			2771 15" sh, gy, fss, calc	
			30" sh, brn, red, gy, sm sil, pyr	
			SS, lt grn, vfgd, s/p tex, pstd, trnd, NS, No, NF	
2800			sh, bl, grn, gy, sm red	
40			AA, much pyr, lpc Δ	Evros Miss 2810 (-1537)
60			Ls, brn, fxl, NS, sl fss, cky, mpt, NS	
80			2820 15" sh, grn, gy, ls, brn w/ yellow, fxl, f-wln, dse, fss, pyr, NS, NF	
			30" AA	
2832			2832 - Δ, v.c.; SS lt grn, glau fgd, NS, NF	
			15" Dol, lt gy, vfgd, dse (30%) Δ, v.c.	
			30" Del AA, no ls, buff mxln, NS	
			2842 15" Dol (Lim), lt gy, m-fsuro, sl od, NS, NF, NS	
			30" Del gy-tan, fsuro, sl cky, gl ad, NS, NF	
			Del dk brn, fsuro, hard, NS, NF, F-od, cky (color); sh, gy, grn, fss (color)	
			AA, f-gd cut (color)	
			AA, f-gd cut (color)	
			AA, gd cut (color)	
2900			Ls, wh, mxln, Δty (whA), NS, NF, No, sl milky cut	
40			AA, sl milky cut	
60			AA, tr milky cut	
80			sh, dk gy	
			Ls, AA, sl milky cut	
3000			Ls, lt gy, sm wh, mxln, NS, No, NF, NS, sl milky cut	
40			Ls, AA, sl milky cut; sm gy sh	
60			Ls, lt gy, fxl, Δty (gyA) tr milky cut	
80			sh, gy, red, sm bl	
			Ls, wh, f-mxln, cky, NS, No, NF, tr milky cut	
			Ls, md gy, m-fxl, od, fss, Δty (fssA), NS, No, NF, tr milky cut	
			sh, gy, bl, sm, red	
			Ls, wh, fxl, NS, No, NF, tr milky cut	
3100			sh, gy, brn; Ls AA (25%) poor samples (much sh)	
40			Ls, wh-Hgy, m-fxl, cky, 60% Δ (lt gy, red Δ) tr cut (color)	
60			AA	
80			AA	
			AA	
			sh, vc, Ls AA (10%)	
			Ls, buff, wh, grl to fxl, cky, No cut	
			Ls, lt grn, gy, fxl, NS, No, NF, No cut	
			AA - NO cut	
3200			Ls, AA; sm pink fxl, ls, No cut	
40			Ls, lt gy, fxl, sm pink Ls AA, no cut	
60			Ls, lt gy to bl/gy, fxl, sl Δ, NS, No, NF, No cut	
80			AA	
			sh, vc	
			Ls, buff, fxl, dse-cky, NS, No, NF, No cut	
			15" sh, dk gy, red, grn	
			30" AA, sm bl sh, sl pyr	
3200			sh, AA, mcr pyr	
40			AA, less pyr	
60			Ls, brn, dse, fxl, NS, No, NF	
80			sh, dk brn, sl od	
			sh, AA, gd od	
			AA	
			3270' 15/30" AA	
			3278 AA	
			30" Dol, lt gy, sm tan, m-fsuro, 15m distn, tr edge stn, NU, Δ, fss, gd od, sm pyr	
			3286 15" Dol, tan, mxln, dse, sl Δty, tr dd stn, NF, No, NF, sl od	
			30" AA	
			3286' RTD	

