



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1187506  
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: \_\_\_\_\_

1187506

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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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**CONSOLIDATED**  
Oil Well Services, LLC

263749

TICKET NUMBER 45165  
LOCATION Eureka  
FOREMAN Steve Mead

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**

**CEMENT** APT 15-115-21465

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-1-13	6942	Ent 2 Artemis-Wedel #1	24	225	3E	marion
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Range Oil Company Inc			485	Alan m		
MAILING ADDRESS			479	ZRUT.		
P.O. Box 781775						
CITY	STATE	ZIP CODE				
Wichita	KS	67282				

JOB TYPE Surface 0 HOLE SIZE 12 1/4 HOLE DEPTH 232' CASING SIZE & WEIGHT 8 5/8 23'  
 CASING DEPTH 223' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20'  
 DISPLACEMENT 13 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety Meeting. Rig up to 8 5/8 casing. Break circulation w/ Fresh water. Mix 125 sks Class A cement w/ 3% CaCl2 2% Gel + 1/4" Flow-Cele per/sk. Shut down Release Plug. Displace w/ 13 bbls Fresh water. Shut well in. Good cement Returns to surface. Sbl to pit Job Complete Rig down

*Thank you*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	870.00	870.00 ✓
5406	25	MILEAGE	4.20	105.00 ✓
11045	125 sks	Class A cement	15.70	1962.50 ✓
1102	250*	CaCl2 3%	.78	273.00 ✓
111813	235*	Gel 2%	.22	51.70 ✓
1107	30*	Flow-Cele 1/4" per/sk	2.47	74.10 ✓
5457	5.87 ton	Ton mileage Bulk Truck	MIC	368.00 ✓
4432	1	8 5/8 Woodan Plug	84.00	84.00 ✓
4132	2	8 5/8 Centralizer	72.50	145.00 ✓
			<b>completed</b>	
			Sub Total	3933.30
			SALES TAX 7.65%	198.16 ✓
			ESTIMATED TOTAL	4131.46 ✓

Ravin 3737

AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



**CONSOLIDATED**  
Oil Well Services, LLC

263775

TICKET NUMBER 45173

LOCATION Eureka

FOREMAN Steve Reed

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**

**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-7-13	6942	ENTZ-Wedel #1	24	225	3E	Marion
CUSTOMER			TRUCK #			
Range Oil Company Inc			485	DRIVER		Alan M.
MAILING ADDRESS			513	DRIVER		Chris M.
P.O. Box 281775			637	DRIVER		Jim M.
CITY		STATE	ZIP CODE			
Wichita		KS	67228			

JOB TYPE LS 0 HOLE SIZE 7 7/8 HOLE DEPTH 2729' CASING SIZE & WEIGHT 5 1/2 14#  
 CASING DEPTH 2725' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 6'  
 DISPLACEMENT 66 1/4 DISPLACEMENT PSI 800# Bump MIX PSI plug 1300# RATE \_\_\_\_\_

REMARKS: Safety meeting. Rig up to 5 1/2 casing. Break circulation w/ Fresh water. Pump 5 bbls ahead Mix 100# Metasilicate w/ 15 bbls fresh water, 5 bbls spacer. Mix 150SKS Thick set Cement w/ 5# Kol-seal 5# perisk. Wash out pump lines. Shut down Release Latch down Plug. Displace w/ 66 1/4 bbls Fresh water Final pumping Pressure 800 # Bump Plug 1300# wait 2 min Release Pressure Plug hold. Good circulation During Job. Job Complete Rig down

*Thank you*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1085.00	1085.00 ✓
5406	25	MILEAGE	4.20	105.00 ✓
1126A	150SKS	Thick set Cement	20.16	3024.00 ✓
1110A	750 #	Kol-seal 5# perisk	.46	345.00 ✓
1111A	100#	Metasilicate Preflush	2.10	210.00 ✓
5407	8.25	Ten mileage Bulk Truck	MLC	368.00 ✓
5502C	6 hrs	80 bbl Vacuum Truck	90.00	540.00 ✓
1123	3000 gallon	City water	17.30/1000	51.90 ✓
4130	5	5 1/2 Centralizers	50.50	252.50 ✓
4228B	1	5 1/2 AFV Insert	180.75	180.75 ✓
4454	1	5 1/2 Latch down Plug	266.75	266.75 ✓
			Sub Total	6428.90
			7.65%	SALES TAX 331.33 ✓
			ESTIMATED TOTAL	6760.23 ✓

Ravin 3737

AUTHORIZATION Par Co TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



**DIAMOND TESTING, LLC**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(620) 653-7550 • (800) 542-7313  
ENTZ-WED1DST1

Company Range Oil Company, Inc. Lease & Well No. Entz-Wedel No. 1  
Elevation 1440 KB Formation Mississippi Effective Pay \_\_\_\_\_ Ft. Ticket No. F192  
Date 11-6-13 Sec. 24 Twp. 22S Range 3E County Marion State Kansas  
Test Approved By Frank S. Mize Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 2,459 ft. to 2,498 ft. Total Depth 2,498 ft.  
Packer Depth 2,454 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 2,459 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 2,437 ft. Recorder Number 0062 Cap. 5,000 psi.  
Bottom Recorder Depth (Outside) 2,463 ft. Recorder Number 5951 Cap. 5,000 psi.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ psi.

Drilling Contractor Summit Drilling Company - Rig 1 Drill Collar Length 320 ft I.D. 2 1/4 in.  
Mud Type Chemical Viscosity 50 Weight Pipe Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Weight 9.3 Water Loss 9.6 cc. Drill Pipe Length 2,106 ft I.D. 3 in.  
Chlorides 1,200 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number 5 Anchor Length 39 ft. Size 4 1/2-FH in.  
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2-XH in.

Blow: 1st Open: Weak, 1/2 in. blow increasing to 10 1/2 ins. No blow back during shut-in.  
2nd Open: Surface blow increasing. Off bottom of bucket in 48 1/2 mins. No blow back during shut-in.

Recovered 95 ft. of gas in pipe  
Recovered 45 ft. of free oil = .221400 bbls. (Grind out: 100%-oil) Gravity: 38 @ 45° Corrected gravity: 39.5  
Recovered 78 ft. of gas cut muddy oil = .383760 bbls. (Grind out: 10%-gas; 45%-oil; 45%-mud)  
Recovered 132 ft. of gas cut heavy oil cut mud = .649440 bbls. (Grind out: 10%-gas; 22%-oil; 68%-mud)  
Recovered 255 ft. of TOTAL FLUID = 1.254600 bbls.

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Remarks \_\_\_\_\_

Time Set Packer(s) 10:08 A.M. Time Started off Bottom 1:08 P.M. Maximum Temperature 100°  
Initial Hydrostatic Pressure.....(A) 1216 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 11 P.S.I. to (C) 60 P.S.I.  
Initial Closed In Period.....Minutes 30 (D) 425 P.S.I.  
Final Flow Period.....Minutes 60 (E) 64 P.S.I. to (F) 117 P.S.I.  
Final Closed In Period.....Minutes 60 (G) 423 P.S.I.  
Final Hydrostatic Pressure.....(H) 1215 P.S.I.