



KANSAS CORPORATION COMMISSION 1113017
OIL & GAS CONSERVATION DIVISION

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 # _____

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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				

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
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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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Sean Deenihan

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Range Oil Company, Inc.**
 LEASE **Bowman #2**
 FIELD **Widcat**

LOCATION **330° FSL & 980° FEL**
 SEC **4** TWP **29S** RGE **31E**
 COUNTY **Butler** STATE **Kansas**

CONTRACTOR **Summit Drilling**
 SPUD **9/16/12** COMP **9/23/12**

RTD **3186'** LTD **3189'**
 MUD UP **1400'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **1700'** TO **RTD**
 DRILLING TIME KEPT FROM **1700'** TO **RTD**
 SAMPLES EXAMINED FROM **1800'** TO **RTD**

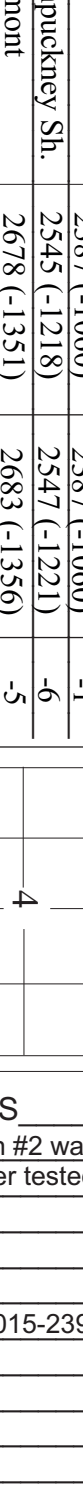
GEOLOGICAL SUPERVISION FROM **2200'**
 REFERENCE WELL **Bowman #1**

ELEVATIONS
 KB **1327'**
 DF _____
 GL **1317'**
 Measurements Are All From Kelly Bishing

CASING
 CONDUCTOR **8.5-8.8" at 225'**
 SURFACE **5.5"**
 PRODUCTION _____

ELECTRICAL SURVEYS
 Log - 1 (top)

Formation	Sample Tops	E-Log Tops	Strat
Heebner	1790 (-463)	1793 (-466)	+1
Lansing	2031 (-704)	2033 (-707)	+1
KC	2387 (-1060)	2387 (-1060)	-1
Hushpuckney Sh.	2545 (-1218)	2547 (-1221)	-6
Altamont	2678 (-1351)	2683 (-1356)	-5
Mississippi	2897 (-1565)	2903 (-1569)	-20
Kinderhook	3057 (-1730)	3058 (-1731)	FBI
Simpson SS	3169 (-1809)	3169 (-1809)	+1
Arbuckle	3172 (-1843)	3172 (-1843)	-3



API #15-015-23953

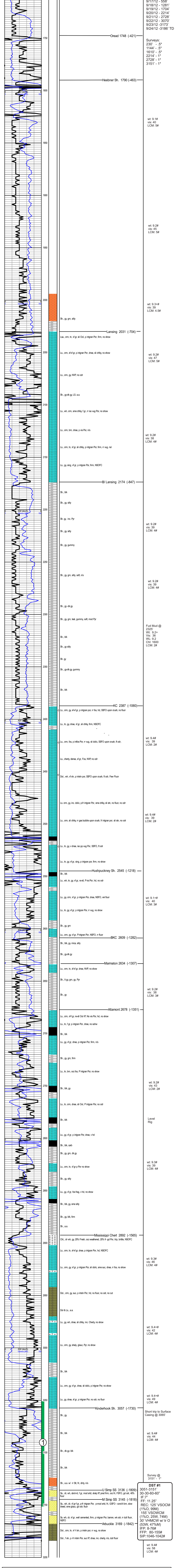
Sean P. Deenihan

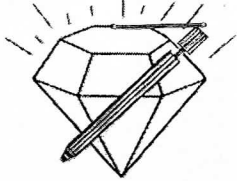
REMARKS
 Bowman #2 was tested through Sample, DST, and E-Log Analysis. 5.5" Casing was run, and the Bowman #2 will be further tested for its Simpson Sand potential.

Respectfully Submitted,

API #15-015-23953

Sean P. Deenihan





DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

BOWMAN2DST1

Company Range Oil Company, Inc. Lease & Well No. Bowman No. 2
 Elevation 1327 KB Formation Simpson Effective Pay _____ Ft. Ticket No. T099
 Date 9-22-12 Sec. 4 Twp. 29S Range 3E County Butler State Kansas
 Test Approved By Sean P. Deenihan Diamond Representative Tim Venters

Formation Test No. 1 Interval Tested from 3,051 ft. to 3,151 ft. Total Depth 3,151 ft.
 Packer Depth 3,046 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Packer Depth 3,051 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 3,032 ft. Recorder Number 8457 Cap. 10,000 psi.
 Bottom Recorder Depth (Outside) 3,148 ft. Recorder Number 11030 Cap. 5,025 psi.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor Summit Drilling Company - Rig 1 Drill Collar Length 251 ft I.D. 2 1/4 in.
 Mud Type Chemical Viscosity 59 Weight Pipe Length _____ ft I.D. 2 7/8 in.
 Weight 9.4 Water Loss 6.8 cc. Drill Pipe Length 2,767 ft I.D. 3 in.
 Chlorides 1,050 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.
 Jars: Make Sterling Serial Number 4 Anchor Length 37' perf. w/ 63' drill pipe. 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, surface blow increasing to 7 ins. No blow back during shut-in.
 2nd Open: Very weak, surface blow increasing to 11 1/4 ins. No blow back during shut-in.

Recovered 125 ft. of very slightly oil cut mud = .806750 bbls. (Grind out: 1%-oil; 99%-mud)
 Recovered 155 ft. of very slightly oil & water cut mud = .762600 bbls. (Grind out: 1%-oil; 25%-water; 74%-mud)
 Recovered 30 ft. of muddy water w/ a trace of oil = .147600 bbls. (Grind out: Trace-oil; 53%-water; 47%-mud) Chlorides: 16,000 Ppm PH: 7.5 RW: .67 @ 71°
 Recovered 310 ft. of TOTAL FLUID = 1.716950 bbls.
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks Tool Sample Grind Out: 3%-oil; 28%-water; 69%-mud

Time Set Packer(s) 6:22 P.M. Time Started off Bottom 9:22 P.M. Maximum Temperature 106°
 Initial Hydrostatic Pressure.....(A) 1520 P.S.I.
 Initial Flow Period.....Minutes 30 (B) 8 P.S.I. to (C) 76 P.S.I.
 Initial Closed In Period.....Minutes 30 (D) 1046 P.S.I.
 Final Flow Period.....Minutes 60 (E) 80 P.S.I. to (F) 155 P.S.I.
 Final Closed In Period.....Minutes 60 (G) 1042 P.S.I.
 Final Hydrostatic Pressure.....(H) 1518 P.S.I.



CONSOLIDATED
Oil Well Services, LLC



ENTERED

TICKET NUMBER 35267
LOCATION Eureka
FOREMAN Steve Mead

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

FIELD TICKET & TREATMENT REPORT

CEMENT APT 15-015-23953

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-16-12	6942	Bowman # 2	4	29S	3E	Burlingame
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Range Oil Company, Inc			485	Alan M.		
MAILING ADDRESS			667	Jim		
125 N. Market Ste 1120						
CITY	STATE	ZIP CODE				
Wichita	KS	67202				

JOB TYPE Surface 0 HOLE SIZE 12 1/4 HOLE DEPTH 290' CASING SIZE & WEIGHT 8 5/8 25#
 CASING DEPTH 213' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 15'
 DISPLACEMENT 13 1/2 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting. Rig up to 8 5/8 casing w/ Head & Manifold. Break circulation
Fresh water Pump kbb) ahead. Mix 130 sks Class A Cement w/ 3% CaCl2, 2% Grl
2 1/2" Flo-Calc PWSK. Shut down Release Plug. Displace with 13 1/2 bbls
Fresh water. Shut well in. Good cement to surface 5 bbl slurry to pit
Job complete Rig down.

Thank you

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405	1	PUMP CHARGE	825.00	825.00
5406	40	MILEAGE	4.00	160.00
11045	1230 sks	Class A Cement	14.95	1943.50
1102	365 #	CaCl2 3%	.74	270.10
11187	245 #	Grl 2%	.21	51.45
1107	65 #	F10-Calc 1/2" PWSK	2.35	152.75
5407	6.11	Ten Mileage Bulk Truck	M/C	350.00
4132	2	8 5/8 Centralizer	69.00	138.00
4432	1	8 5/8 Wooden Plug	80.00	80.00
			Sub Total	3970.80
			SALES TAX 6.55%	172.65
			ESTIMATED TOTAL	4143.45

Ravin 3737

252957

AUTHORIZATION X L. Eder 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