

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15-077-21,245-00-00

County Harper

NE NE NE Sec. 11 Twp. 31S Rge. 7W East West

4950 Ft. North from Southeast Corner of Section

330 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Lease Name Zimmerman "Q" Well # 1

Field Name _____

Producing Formation None

Elevation: Ground 1560' KB 1565'

Total Depth 3450' PBTD _____

Operator: License # 5123

Name: Pickrell Drilling Company, Inc.

Address 110 N. Market, Suite 205

City/State/Zip Wichita, Kansas 67202

Purchaser: _____

Operator Contact Person: Larry J. Richardson

Phone (316) 262-8427

Contractor: Name: Pickrell Drilling Co.

License: 5123

Wellsite Geologist: Larry J. Richardson

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If OWO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

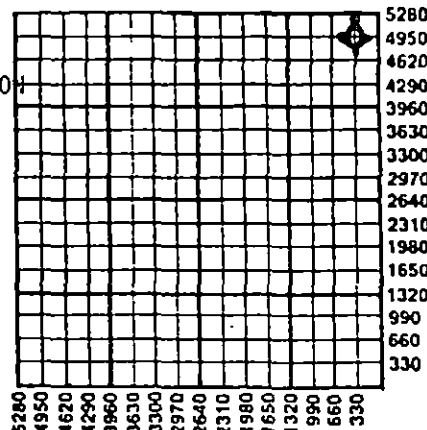
Drilling Method:

Mud Rotary Air Rotary Cable

6-24-91 6-29-91 6-29-91

Spud Date Date Reached TD Completion Date

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Air 2 DYA

Amount of Surface Pipe Set and Cemented at 230'KB 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 cnt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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.

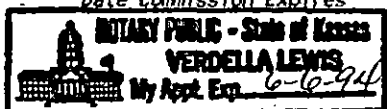
Signature [Signature]
Title C. W. Sedits
President Date 7-08-91

Subscribed and sworn to before me this 8 day of July,
19 91.

Notary Public [Signature]

Date Commission Expires 6-06-94

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)



SIDE TWO

Operator Name Pickrell Drilling Company, Inc. Lease Name Zimmerman "O" Well # 1
 Sec. NE Twp. NE Rge. NE East County Harper County
 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.) Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Submit Copy.)	<p align="center">Formation Description</p> <p align="center"><input type="checkbox"/> Log <input checked="" type="checkbox"/> Sample</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;">Name</th> <th style="width:20%;">Top</th> <th style="width:20%;">Bottom</th> </tr> </thead> <tbody> <tr><td>Red Eagle</td><td>2085(- 520)</td><td></td></tr> <tr><td>Indian Cave</td><td>2239(- 674)</td><td></td></tr> <tr><td>Wabaunsee</td><td>2280(- 715)</td><td></td></tr> <tr><td>Tarkio</td><td>2458(- 893)</td><td></td></tr> <tr><td>Howard</td><td>2697(-1132)</td><td></td></tr> <tr><td>Topeka</td><td>2878(-1313)</td><td></td></tr> <tr><td>Heebner</td><td>3253(-1688)</td><td></td></tr> <tr><td>Douglas</td><td>3334(-1769)</td><td></td></tr> <tr><td>Iatan</td><td>3473(-1908)</td><td></td></tr> <tr><td>Stalnaker Sand</td><td>3528(-1963)</td><td></td></tr> </tbody> </table>	Name	Top	Bottom	Red Eagle	2085(- 520)		Indian Cave	2239(- 674)		Wabaunsee	2280(- 715)		Tarkio	2458(- 893)		Howard	2697(-1132)		Topeka	2878(-1313)		Heebner	3253(-1688)		Douglas	3334(-1769)		Iatan	3473(-1908)		Stalnaker Sand	3528(-1963)	
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CASING RECORD New 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
Surface Casing	.12 1/4"	8 5/8" New	20#	230' KB	60/40 poz	160sx	2%gel, 3%CC

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First Production _____ 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: Vented Sold Used on Lease (if vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Commingled

Other (Specify) _____

Production Interval _____

PICKRELL DRILLING COMPANY, INC.

110 NORTH MARKET - SUITE 205

WICHITA, KANSAS 67202-1996

(316) 262-8427

#1 Zimmerman "Q"
NE NE NE
Sec. 11-31S-7W
Harper County, Kansas

API: 15-077-21,245
ELEV: 1565'KB, 1563'DF, 1560'GL
4950' From South Line of Section
330' From East Line of Section

6-24-91: MIRT.

6-25-91: (On 6/24) Spud @ 4:00 PM, set new 8 5/8" 20# Csg @ 230'KB, cement w/160sx
60/40 poz, 2% gel 3% CC. Complete @ 10:00 PM on 6/24/91. Cmt circ.
(On 6/25) Drlg. out under surface.

6-26-91: Drlg. @ 1524'.

6-27-91: Drlg. @ 2350'.

6-28-91: Drlg. @ 2940'.

6-29-91: Running DST #1 @ 3476'-3540'. TD 3540'.

6-30-91: RTD 3540'. DST #1 3476'-3540'. 30"-60"-45"-90", SB T/O, Rec. 90'M, 650'SW, 2
IFP 162#-233#, ISIP 1398#, FEP 304#-386#, FSIP 1398#. Well P&A as follows:
35sx @ 900', 35sx @ 600', 35sx @ 250', 10sx @ 40', 15sx in rathole (all 60/40
poz mix, 6% gel cement). Completed @ 12:00 midnight on 6/29/91.

SAMPLE TOPS

Red Eagle	2085(- 520)
Indian Cave Sd	2239(- 674)
Wabaunsee	2280(- 715)
Lower Wabaunsee	2337(- 772)
Tarkio	2458(- 893)
Topeka	2878(-1313)
Heebner	3253(-1688)
Stalnaker Sand	3528(-1963)

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CONSERVATION DIVISION
Wichita, Kansas

ORIGINAL

Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812
Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. No. 9192

Home Office P. O. Box 31

Russell, Kansas 67665

New - Rotary plug

Date	6-29-91	Sec.	11	Twp.	31	Range	7	Called Out	6:00	On Location	9:00	Job Start	10:45 pm	Finish	12:00 am
Lease	ZIMMERMAN		Well No.	#1		Location		Dug-in - 2 E-15-2nd into Harper			County	State		KS	
Contractor	Pickrell Drilling Co.														
Type Job	Rotary plug														
Hole Size	7 7/8		T.D. 3540												
Csg.	8 7/8 surface pipe		Depth												
Tbg. Size			Depth												
Drill Pipe	4 1/2 hole		Depth 900'												
Tool			Depth												
Cement Left in Csg.			Shoe Joint												
Press Max.			Minimum												
Meas Line			Displace												
Perf.															

Owner Pickrell
To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Pickrell Drilling Co.
Street 110 Market Suite 205
City Wichita State Kansas 67202
The above was done to satisfaction and supervision of owner, agent or contractor.

Purchase Order No.
X City Strickland

CEMENT

Amount Ordered 130 - 40/40 - 690

Consisting of
Common 78 5.25 409.50
Poz. Mix 52 RECEIVED 2.25 117.00
Gel. 8 STATE CORPORATION COMMISSION 75 54.00
Chloride
Quickset JUL 09 1991

CONSERVATION DIVISION
Wichita, Kansas Sales Tax

Handling 130 1.00 130.00
Mileage 42 218.40
Sub Total
Total 928.90

Floating Equipment
#1413.90
Disc. 212.09
#1201.81

EQUIPMENT

No.	Cementer	Jack W
Pumptrk 195	Helper	Don H
No.	Cementer	
Pumptrk	Helper	
	Driver	Kent
Bulktrk 203	Driver	

DEPTH of Job

Reference:	Pump Truck	380.00
42	Mileage	84.00
	1 wooden 8 7/8 plug	21.00
	Sub Total	
	Tax	
	Total	485.00

Remarks:
First plug @ 900' 25' st
Second plug @ 600' 25' st
3rd plug @ 250' 32' st
4th plug - 40' - 12 st
Rot hole - 15'

THANKS

ORIGINAL

Russell, Kansas
5861, Great Bend, Kansas

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

No 1292

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	6-24-91	Sec.	11	Twp.	31	Range	7	Called Out	8:00 PM	On Location	8:00 PM	Job Start	9:30 AM	Finish	10:30 PM
Lease	Zimmerman	Well No.	"Q" #1	Location	Duguan 2E 1S 7W 5/8	County	Harper	State	K.S.						

Contractor	Pickrell Drilling P.O. #1
Type Job	Surface Pipe Job
Hole Size	12 1/2" T.D. 234 233 1/2"
Csg. #20	8 5/8" Depth 233 1/2"
Tbg. Size	Depth
Drill Pipe	Depth
Tool	Depth
Cement Left in Csg.	15 1/2" Shoe Joint
Press Max.	Minimum
Meas Line	218 1/2" Displace 14.2 bbl
Perf.	

Owner	same
To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Charge To	Pickrell Drilling Co Inc
Street	110 N. Market Suite 205
City	Wichita
State	Ks 67202
The above was done to satisfaction and supervision of owner agent or contractor.	

Purchase Order No.
 Wick J. Best

CEMENT

Amount Ordered	160 ⁶⁰ / ₁₀₀ 2-3
Consisting of	
Common	96 5.25 504.00
Poz. Mix	64 2.25 144.00
Gel.	3 6.75 20.25
Chloride	5 21.00 105.00
Quickset	

Handling	160	1.00	160.00
Mileage	42		268.80
		Subtotal	
		#	
		Total	1181.80

Floating Equipment
 TOTAL \$ 1687.80
 Disc - 253.17

EQUIPMENT		
Great Bend		
Pumptrk	No. 120	Cementer Mike
		Helper Duane
Pumptrk	No.	Cementer
		Helper
		Driver Kent
Bulktrk	101	
Bulktrk		Driver

DEPTH of Job	234
Reference:	
42	Pump Truck charges 380.00
1	m. log charge 84.00
	wooden plug 42.00
	Subtotal
	Total 506.00

Remarks: Cement did circulate

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 STATE CORPORATION COMMISSION

\$ 1434.63

JUL 09 1991

Allied Cementing Co. Inc.
 Mike Murch

CONSERVATION DIVISION
 Wichita, Kansas