

ORIGINAL

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- 141-20,253-00-00

County Osborne
APPROX. SW Sec. 22 Twp. 10 Rge. 15 East West

4680 2040 per GPS KCC NR
Ft. North from Southeast Corner of Section
2750 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

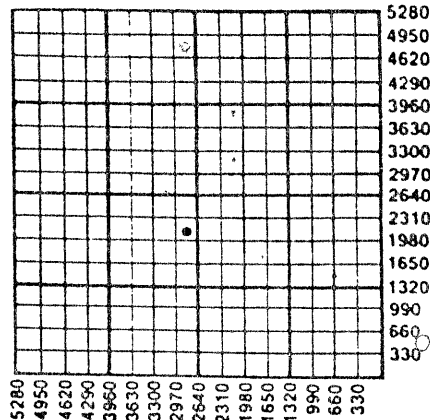
Lease Name Koelling Well # 4

Field Name Ruggles

Producing Formation Topeka/Kansas City C&D

Elevation: Ground 1783' 1788 KB 1788' 1793

Total Depth 3475' PBDT 3450'



Amount of Surface Pipe Set and Cemented at 685' 300sks 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.

Operator: License # 6600

Name: Don Karst Well Service, Inc.

Address 201 East 29th

P.O. BOX 1316

City/State/Zip Hays, Kansas 67601

Purchaser: Farmland

Operator Contact Person: Donald D. Karst

Phone (913) 628-1125

Contractor: Name: Western Kansas Drilling, Inc.

License: 4083

Wellsite Geologist: Dave Shumaker

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If OWMO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

9-17-90 9-24-90 9-25-90

Spud Date Date Reached TD Completion Date

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 Donald Karst

Title Donald D. Karst President

Subscribed and sworn to before me this 27th day of November 1990.

Notary Public Colleen Payton

Date Commission Expires 5-2-91

RECEIVED
NOV 30 1990
11-30-90
CONSERVATION DIVISION
Wichita, Kansas
Colleen Payton
NOTARY PUBLIC
State of Kansas
MY APPT. EXPIRES 5-2-91

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
D Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)
DEC 12-13-90

SIDE TWO

Operator Name Don Karst Well Service Lease Name Koelling Well # 4
 Sec. 22 Twp. 10 Rge. 15 East West
 County Osborne

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 Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 Time: 45-45-45-45 Drill Stem Test No. 1 2964-3038 L.K.C.
 Blow: 1st Open - weak intermittent
 2nd open - weak intermittent
 Pressures:
 IHMP: 1637# IFP: 84# - 92#
 ISIP: 286# FFP: 109# - 117#
 FSIP: 274# BHT: N.A.
 FHMP: 1605#
 Recovery: 50 feet of very slightly oil cut mud
 50 total fluid
 Mud Properties:
 Viscosity: 43 Weight: 9.8 Water loss: 17.0 cc.

Formation Description		
Name	Top	Bottom
Anhydrite	952	
Base Anhydrite	986	
Topeka	2664	
Heebner	2905	
Toronto	2928	
Lansing-KC	2957	
Base KC	3223	
Conglomerate	3320	
Arbuckle	3357	
RTD	3473	

CASING RECORD <input checked="" 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
Surface	12 1/4'	8 5/8	20#	685'	60/40 poz	300	3%cc, 2%gel
Production	7 7/8	5 1/2	14#	3469'	60/40 poz	225	10% salt, 5% gel

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
2hpf	3005-08, 2985-88, 2695-98	3500gal. 15% non-emulsion acid	2986 1/2 - 3006 1/2
		1000 gal. 15% intensified non-swelling acid	2701-04

TUBING RECORD
 Size 2-3/8" Set At 3400 Packer At none Liner Run Yes No

Date of First Production 10-17-90 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil 8 Bbls.	Gas 0 Mcf	Water 79 Bbls.	Gas-Oil Ratio	Gravity
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Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled

Production Interval: 3005-08
2985-88
2695-98

.83-2627, Russell, Kansas
 316-793-5861, Great Bend, Kansas

ORIGINAL

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

ALLIED CEMENTING CO., INC. No. 9892

Home Office P. O. Box 31 Russell, Kansas 67665

New

Date	9-18-90	Sec.	22	Twp.	10	Range	15	Called Out		On Location		Job Start		Finish	9/22/90
Lease	Koelling	Well No.	4	Location	Natomia 1/2 SE 1/4 W			County	Osborne	State	Ks				

Contractor	Western Ks Drlg
Type Job	Long Surface
Hole Size	12 1/4
Csg.	8 1/2
Tbg. Size	
Drill Pipe	
Tool	
Cement Left in Csg.	18-15
Press Max.	
Meas Line	

Owner	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	Dan Karst Well Service
Street	P.O. Box 1316
City	Hays
State	Kan 67601
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	
X	FRANK TAGGART
CEMENT	

Perf.

EQUIPMENT

No.	Cementer	
Pumptrk 153	Helper	Dave
No.	Cementer	
Pumptrk	Helper	
Bulktrk 156	Driver	Mark
Bulktrk	Driver	

Amount Ordered	300 ⁰⁰ 40	3/6 CC	2 1/2 gal
Consisting of			
Common	180	5.00	900.00
Poz. Mix	120	2.25	270.00
Gel.	6	6.75	NR
Chloride	9	20.00	180.00
Quickset			

DEPTH of Job	
Reference:	
	Pump tik chg 360.00
	2 nd Per mile 56.00
	60 lb 8 1/2 Rubber plug 71.00
	Sub Total 487.00
	Tax
	Total

Handling	90	270.00
Mileage	28 mi	03 252.00
Sub Total		1872.00
Total		

Remarks: Cement Cir

RECEIVED
 STATE CORPORATION COMMISSION

CONSERVATION DIVISION
 Wichita, Kansas

ORIGINAL

Russell, Kansas
 913-5861, Great Bend, Kansas

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

New

ALLIED CEMENTING CO., INC. N^o 9024

Home Office P. O. Box 31

Russell, Kansas 67665

Date	9-24-90	Sec.	22	Twp.	10 ^s	Range	15 ^w	Called Out	5:00 P.M.	On Location	8:00 P.M.	Job Start	10:45 P.M.	Finish	Midnight	
Lease	Koelling	Well No.	4	Location				Natoma 2E 1/4 SW	County	Osborne	State	Ks.				

Contractor	Western Ks. Dalg.	Rig #2
Type Job	Production String	
Hole Size	7 7/8"	T.D.
Csg.	5 1/2"	Depth
Csg. Size	8 7/8"	Depth
Drill Pipe		Depth
Tool		Depth
Cement Left in Csg.	27'	Shoe Joint
Press Max.	1250#	Minimum
Meas Line	X	Displace
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	Don Karst Well Service
Street	P.O. Box 1316
City	Hays
State	Ks
	67601
The above was done to satisfaction and supervision of owner agent or contractor.	

Purchase Order No.	
X	Don Karst

EQUIPMENT

No.	Cementer	
Pumptrk 191	Helper	Gary H. Wayne Mc.
No.	Cementer	
Pumptrk	Helper	
Bulktrk #212	Driver	Glen C.
Bulktrk	Driver	

CEMENT	
Amount Ordered	225 sks 6 7/8" per 10' suit
Consisting of	5 bags of 500 gal. WFR, Plush
Common	135 sks @ 5.00/sk. 675.00
Poz. Mix	90 sks @ 2.25/sk. 202.50
Gel.	
Chloride Salt	22 sks @ 4.75/sk. 104.50
WFR-300 gal	@ 2.14/gal. 281.38
WFR-300 gal	@ 2.14/gal. 105.00
Sales Tax	
Handling	@ 90¢/sk. (225 sks) 202.50
Mileage	@ 34¢/sk./mi. (20 mi.) 135.00
Sub Total	
1706.38	
Total	
R.O.	

DEPTH of Job	
Reference:	
#1	Pumptruck-long string 838.00
#8	1-5 1/2" rubber plug 43.00
#14	mileage @ 2.00/mi. 40.00
Sub Total	
892.00	
Tax	
Total	

Remarks: Float Held.

Plugged rat hole w/15 sks.

Thanks

Floating Equipment 5 1/2"

1-regular guide shoe - #119.00

RECEIVED
 STATE CORPORATION COMMISSION

NOV 30 1990

CONSERVATION DIVISION
 Wichita, Kansas