

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- 063-21,294-00-00

County Gove
NE NW Sec. 31 Twp. 14 Rge. 28W East
 West

Operator: License # 4797

4620 Ft. North from Southeast Corner of Section

Name: Cascade Oil

3300 Ft. West from Southeast Corner of Section

Address P. O. Box 666

(NOTE: Locate well in section plat below.)

City/State/Zip Leavenworth, KS 66048

Lease Name Evans Well # 31-3

Field Name _____

Purchaser: _____

Producing Formation _____

Operator Contact Person: Douglas Schafer

Elevation: Ground _____ KB _____

Phone (913) 651-0405

Total Depth 4328' PBDT _____

Contractor: Name: Red Tiger Drilling

License: 5302

Wellsite Geologist: _____

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If OMO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

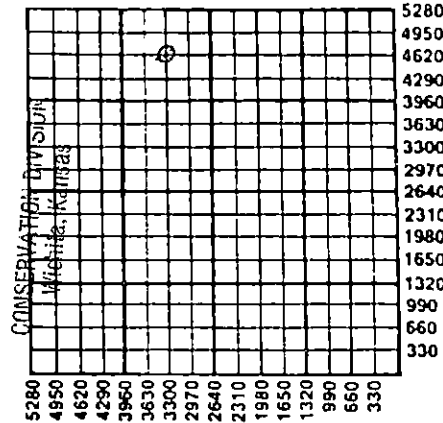
Mud Rotary Air Rotary Cable

11-14-89 11-23-89

Spud Date _____ Date Reached TD _____ Completion Date _____

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Amount of Surface Pipe Set and Cemented at 268 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.

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 Douglas C. Schafer
Title Owner Date Mar 3, 1990

Subscribed and sworn to before me this 3rd day of March, 19 90.

Notary Public _____
Date Commission Expires My Commission Expires May 5, 1993

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)

PI

SIDE TWO

Operator Name Cascade Oil Lease Name Evans Well # 31-3
 Sec. 31 Twp. 14 Rge. 28W East County Gove 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.)	<p align="center">Formation Description</p> <input type="checkbox"/> Log <input type="checkbox"/> Sample Name Top Bottom See attached geological report
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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
surface	12 1/2	8 5/8	20#	268	60/40 poz	160	2%gel, 3%cc
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
	Plugged & Abandoned						
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Size	Set At	Packer At					
Date of First Production	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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 Conmingled

Other (Specify) _____

Production Interval _____

BULK MATERIALS DELIVERY AND TICKET CONTINUATION

FOR INVOICE AND TICKET NO. 878590

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DATE 11-23=89	CUSTOMER ORDER NO.	WELL NO. AND FARM Evans	COUNTY Gove	STATE Kansas
CHARGE TO Cascade 0,1		OWNER Same	CONTRACTOR Red Tiger	No. B 847799
MAILING ADDRESS		DELIVERED FROM Hays, Ks	LOCATION CODE 50325	PREPARED BY Kuhn
CITY & STATE		DELIVERED TO S Gove, Ks	TRUCK NO. 51252	RECEIVED BY <i>B. Crosswiltz</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
		L	D		QTY.	MEAS.	QTY.	MEAS.		
				185 Cu. Ft. Pozmix Cement	6%	Gel				604 95
504-308	516.00266	2	B	Standard Cement			111		5.45	71 95
506-105	516.00286	2	B	Pozmix 'A'			74		2.88	213 12
506-121	516.00259	2	B	3sk Halliburton Gel @2%						n/c
507-277	516.00259	2	B	Halliburton Gel @4%			7		13.00	91 00
507-210	890.50071	2	B	Flocele Blended		1b	46		1.21	55 66
THIS IS NOT AN INVOICE										
MAR 07 1990				Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES			
				SERVICE CHARGE ON MATERIALS RETURNED			CU. FEET			
500-207		2	B	SERVICE CHARGE			185		.95	175 75
500-306		2	B	Mileage Charge	16,956	42	356.076		.70	249 25
No. B 847799					TOTAL WEIGHT	LOADED MILES	TON MILES	SUB-TOTAL		1,389 73

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ROBERT H. FEHLMANN
2561 South Brentwood Ct.
Lakewood, Colorado 80227
(303) 986-3638

November 24, 1989

Cascade Oil
P. O. Box 666
Leavenworth, Kansas 66048

Re: Geological Report
Cascade Oil
Evans #31-3
MEMW Sec. 31-T14S-R28W
Gove County, Kansas

SUMMARY:

Samples were examined from 3400' to 4328' (TD). The well was under geologic supervision from 3400' to total depth.

Contractor: Red Tiger Drilling - Rig #5
Tool Pusher: Walt Oden = (913) 483-2617
Rig Phone: Hays Mobil Unit = (913) 625-7997
Red Tiger Drilling, Wichita = (316) 263-2617

Geologist: Robert H. Fehlmann
2561 South Brentwood Ct.
Lakewood, Colorado 80227
(303) 986-3638

Spud: November 14, 1989

Completed: November 23, 1989 - D&A

Elevations: KB = 2534
GL = 2529

Casing Record: 8-5/8" at 268'

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Formation Tops:

<u>Formation</u>	<u>Depth</u>	<u>Sea-Level Datum</u>
Anhydrite (Stone Corral)	1940	+ 594
Tarkio	3237	- 703
Heebner	3612	-1078
Toronto	3616	-1082
Lansing/Kansas City	3654	-1120
Base Kansas City	3692	-1428
Marmaton	3971	-1437
Pawnee	4070	-1536
Ft. Scott	4144	-1610
Cherokee	4170	-1636
Mississippian	4257	-1723
Log-Tech Total Depth	4333	-1799

All depths are Log-Tech measurements from KB.

Also see attached detailed tops comparison sheet.

Drill Stem Test: Trilobite Testing, Hays, Kansas
(913) 625-4778

DST #1 - 3608-3675'

Open 30 min, shut-in 30 min, open 60 min, shut-in 90 min. Steadily increasing, good blow. Recovered 490' salt water with a show of oil in the tool.

HP: 1790-1778

SIP: 1128-1128

FP: 60/132 - 156/277

Rw = .221 @ 45.5 deg. F.

Salinity = 55,000 ppm, 2200 ppm Cl.

Electrical Surveys: Log-Tech, Topeka, Kansas

RA Guard Log from 3200-4333' TD

Borehole Compensated Sonic Log from 250-4333' TD

Log Calculations: Rw = .07 Toronto to Mississippian,
Rw = .12 for Mississippian.

Note: The Driller's total depth was five (5) feet less than the Logger's total depth (4328' vs. 4333'). This accounts for part of the Sample Log vs. Electric Log Top differences. Strap at 3675' was 2.3 feet long.

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Porous Zones:

Toronto 3637-39'

Limestone, light tan-buff, micrite, tite, with weak dull yellow fluorescence, rare grains give fast strong, streaming bright yellow to milky cut. Most grains give very weak evaporation ring cut. Interbedded with buff, fossiliferous packstone with good pinpoint and intergranular porosity and no shows or cut. Yellow mineral fluorescence is present throughout.

Lansing/Kansas City

"A" Zone 3655-62'

Limestone, light tan to buff, interbedded tight micrite and packstone with fair to good porosity, rare oolites. Circulated sample had good pinpoint to vugular porosity which gave moderate to strong fast milky yellow cut. DST #1 of this zone and the Toronto above recovered 490' of formation salt water (55,000 ppm) with a show of oil in the tool.

"E/F" Zone 3755-59'

Limestone, light brown to tan micrite and packstone interbedded. Some brown finely crystalline limestone. Black tar-like dead oil fills and lines many of the pores and vugs. The tar specks will not fluoresce, but cut with a strong yellow cut. The samples look wet with only residual oil shows. No test recommended.

Upper "G" Zone 3762-70'

Limestone, brown, oocastic, good porosity, no permeability, very weak crush evaporate cut ring. Samples look wet. No test recommended.

"G" Zone 3784-88'

Limestone, light tan to brown micrite and wackestone interbedded, dull yellow mineral fluorescence, some porous grains give a weak slow milky cut. Samples look wet. No test recommended.

"J" Zone 3886-88'

Limestone, light brown to tan micrite with poor to fair pinpoint and vugular porosity. Numerous black dead oil specks which give cut but won't fluoresce. Samples look wet. No test recommended.

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"L" Zone 3942-46'

Limestone, brown fossiliferous wackestone with poor porosity filled with black non-fluorescing oil specks. Samples look wet. No test recommended.

Mississippian
4296-4329'

Dolomite and dolomitic limestone, white to creamy gray, sucrosic to microcrystalline with fair intercrystalline porosity, very weak evaporate ring cut. Samples look wet. No test recommended.

All porous zones calculated wet from the electric logs. The "A" zone was the best looking zone for production potential, but tested 490' of formation salt water (55,000 ppm) with only a show of oil in the tool.

Apparently this well is too low structurally (\pm 23' low to Clinton #1 Evans producer) to trap hydrocarbons. Oil migrated through its porous zones updip - probably to the north and east toward the Clinton #1 Evans. The well was abandoned in the Mississippian at 4328' Driller's depth.

Recommendations:

1. Trade well data (logs, etc.) with:
 - A. Clinton Production for:
 - #1 Evans, SENWSE Sec. 30-T14S-R28W (Producer)
 - #2 Evans, W/2NESE Sec. 30-T14S-R28W
 - B. Dane Hansen Trust for:
 - Well in NENWSW Sec. 30-T14S-R28W.
2. Acquire and/or shoot seismic across Sec. 31-T14S-R28W.
3. Tie seismic to the sonic log on the Cascade Evans #31-3 (synthetic seismogram).
4. Potential producing locations exist in the N/2, NE, and in the S/2 Sec. 31-T14S-R28W. Seismic and trade data will help evaluate this potential.

Respectfully,



Robert H. Fehlmann, Geologist
2561 South Brentwood Ct.
Lakewood, Colorado 80227
(303) 986-3638

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FORMATION TOPS SUMMARY

Formation	Cascade Oil #31-3 Evans NENW Sec. 31, T14S-R28W (KB=2534)			Comparison Key Well (KB=2552) SESW 30-14S-28W Kan Ex Inc. Evans #1		Log Top Difference Cascade Oil to Kan Ex Inc. (Key Well)
	Sample Top	RA Guard Log Top	Sample Top to Log Top Difference			
Anhydrite	1935 (+ 599)	1940 (+ 594)	+ 5	1951 (+ 601)	- 7	
Heebner	3608 (-1074)	3612 (-1078)	+ 4	3620 (-1068)	-10	
Toronto	3610 (-1076)	3616 (-1082)	+ 6	3625 (-1073)	- 9	
Lansing/Kansas City						
"A"	3650 (-1116)	3654 (-1120)	+ 4	3662 (-1110)	-10	
"B"	3678 (-1144)	3680 (-1146)	+ 2	3690 (-1138)	- 8	
"D"	3699 (-1165)	3704 (-1170)	+ 5	3712 (-1160)	-10	
"E/F"	3734 (-1200)	3734 (-1200)	0	3742 (-1190)	-10	
"G"	3757 (-1223)	3761 (-1227)	+ 4	3770 (-1218)	- 9	
"G"	3793 (-1259)	3796 (-1262)	+ 3	3870 (-1255)	- 7	
"H"	3810 (-1276)	3821 (-1287)	+11	3832 (-1280)	- 7	
"I"	3840 (-1306)	3840 (-1306)	0	3852 (-1300)	- 6	
"J"	3873 (-1339)	3874 (-1340)	+ 1	3888 (-1336)	- 4	
"K"	3895 (-1361)	3894 (-1360)	- 1	3970 (-1355)	- 5	
"L"	3935 (-1401)	3926 (-1392)	- 9	3940 (-1388)	- 4	
BKC	3966 (-1432)	3962 (-1428)	- 4	3970 (-1418)	-10	
Marmaton	3970 (-1436)	3971 (-1437)	- 1	3978 (-1426)	-11	
Pawnee	4073 (-1539)	4070 (-1536)	- 3	4077 (-1525)	- 9	
Ft. Scott	4153 (-1619)	4144 (-1610)	- 9	4153 (-1601)	- 9	
Cherokee	4194 (-1660)	4170 (-1636)	-24	4185 (-1633)	- 3	
Miss.	4290 (-1756)	4257 (-1723)	-33	4262 (-1710)	-13	
TD	4328	4333				

NOTE: Strap Difference at 3675' was +2.33'. We were actually at 3677.3', not 3675'.

Clinton #1 Evans, SENWSE 31-14S-28W has Anhydrite at 1968' and KB=2600'.
Therefore Anhydrite there is (+614).

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