

KANSAS

IMPORTANT

Kans. Geo. Survey request samples on this well.

22-2-28W

WELL COMPLETION REPORT AND DRILLER'S LOG

S. 22 T. 2 R. 28 W

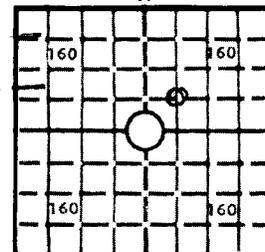
Loc. SW NE

API No. 15 - 039 - 20,559

REC-1111111111

County Decatur

640 Acres N



Elev.: Gr. 2498

DF KB 2492

Operator Cherokee Petroleum Corp.

Address 410- 17th Street, Suite 2300 Denver, Colo 80202

Well No. #4 Lease Name Allen Richards

Footage Location 1980 feet from (N) S line 1980 feet from (E) W line

Principal Contractor Banner Drilling Geologist Dave Shumaker

Spud Date 1/9/81 Date Completed 1/14/81 Total Depth 3765 P.B.T.D.

Directional Deviation Oil and/or Gas Purchaser P&O Falco

CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
Surface	11 1/2	8-5/8	24	208	60/40 poz	90	2% gel, 3% cc
Production	7-7/8	4 1/2	9.5	3767	50/50 poz	140	2% gel, 7.5# gil-sonite per sack
					60/40	210	2% gel, 10% salt

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			4		3460-62
			4		3475-83
			4		3510-16
			4		3554-60
			4		3618-22
			4		3642-44 - 3650-52
			4		3668-72
					3686-90

TUBING RECORD

Size	Setting depth	Packer set at
		4
		4
		4
		4

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
Acidize w/750 gal 28%	3460-62
Polymer treatment w/123 bbl load	3475-83
Acidize w/750 gal 28%	3510-16
Acidize w/750 gal 28%	3554-60
Acidize w/250 gal 28%	3618-22
Acidize w/750 gal 28%	3642-44 -- 3650-52
Acidize w/3000 gal 28%	3668-72 -- 3686-90
Acidize w/750 gal 28%	INITIAL PRODUCTION 3686-90

Date of first production 3/13/81 Producing method (flowing, pumping, gas lift, etc.) Pumping

RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio
	22 bbls.		20 MCF	CFPB

Disposition of gas (vented, used on lease or sold) Producing interval (s) All 8 zones perforated

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be trans-

Operator Cherokee Petroleum Corporation		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: Oil
Well No. 4	Lease Name Allen T. Richards	
S 22 T2S R 28 ^{XB} W		

WELL LOG

Show all important zones of porosity and contents thereof; cored intervals, and oil drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
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<u>FORMATION</u>	<u>DEPTH</u>	<u>MINUS DATUMS</u>	
Anhydrite	2161	+	337
Base Anhydrite	2191	+	307
Topeka	3311	-	813
Oread	3410	-	912
Heebner	3428	-	930
Toronto	3461	-	963
Lansing-Kansas City	3474	-	976
Base-Kansas City	3672	-	1174
Rotary T.D.	3760	-	1262
Log T.D.	3765	-	1267

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

Date Received	<div style="border-bottom: 1px solid black; margin-bottom: 5px;"><i>Courtney E. Cook</i></div> <div style="display: flex; justify-content: space-between; font-size: small;"> Courtney E. Cook Signature </div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;">Vice President - Operations</div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> Title </div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;">March 25, 1981</div> <div style="display: flex; justify-content: space-between; font-size: x-small;"> Date </div>
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