SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

Operator: license # 9229
name Douglas Energy Company, Inc.
address 4013 N.W.Expressway, #310
City/State/Zip Oklahoma City, OK 73116

Operator Contact Person Jeffrey H. White
Phone 405/843-0400

Contractor: license # 5146
name Beredco

Wellsite Geologist Jeffrey H. White
Phone 405/843-0400

Designate Type of Completion
[X] New Well [ ] Re-Entry [ ] Workover

[X] Oil [ ] SWD [ ] Temp Ab
[X] Gas [ ] Inj [ ] Delayed Comp
[ ] Dry [ ] Other (Core, Water Supply etc.)

If OWWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method: [X] Mud Rotary [ ] Air Rotary [ ] Cable

10/11/84 Spud Date | 10/21/84 Date Reached TD | 12/7/84 Completion Date

6684' RTD Total Depth | 6636' PBTD

Amount of Surface Pipe Set and Cemented at 1686 feet

Multiple Stage Cementing Collar Used? [ ] Yes [X] No

If Yes, Show Depth Set feet

If alternate 2 completion, cement circulated
from feet depth to w/ SX cmt

API NO. 15 - 175-20,792

County Seward

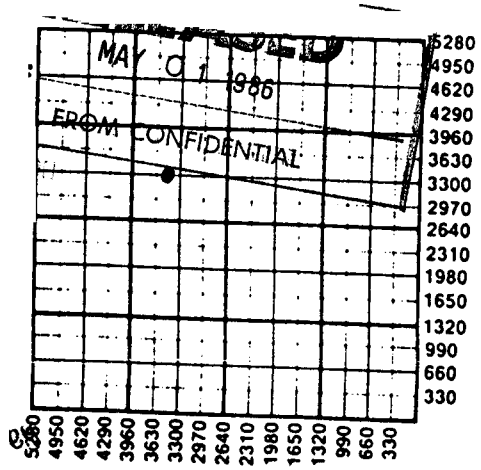
150'W of C SE NW (location) Sec 19 Twp 34 Rge 34 [X] East [ ] West

3300' Ft North from Southeast Corner of Section
3450' Ft West from Southeast Corner of Section
(Note: locate well in section plat below)

Lease Name James Well# 1-19

Field Name RG
Lower Chester Sand-Oil
Producing Formation Lower Morrow Sand-Oil

Elevation: Ground 2954' KB 2967'



WATER SUPPLY INFORMATION

Source of Water:
Division of Water Resources Permit # T-83-725

[X] Groundwater 330' Ft North From Southeast Corner an
(Well) 4290' Ft. West From Southeast Corner o
Sec 19 Twp 34 Rge 34 [ ] East [X] West

[ ] Surface Water Ft North From Sourtheast Corner an
(Stream, Pond etc.) Ft West From Southeast Corne
Sec Twp Rge [ ] East [ ] West

[ ] Other (explain)
(purchased from city, R.W.D.#)

Disposition of Produced Water: [ ] Disposal [ ] Repressuring

Docket #

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rules 82-3-130 and 82-3-107 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. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

SIDE TWO

Operator Name Douglas Energy Company, Inc. Lease Name James Well# 1 SEC 19 TWP 34 RGE 34 ☐ East ☒ West

WELL LOG

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
Samples Sent to Geological Survey	☐ Yes	☒ No
Cores Taken	☐ Yes	☒ No

Formation Description ☒ Log ☐ Sample

Name	Top	Bottom
Heebner	4291 (-1324)	4300 (-1333
Toronto	4320 (-1353)	4350 (-1383)
Lansing	4418 (-1451)	4812 (-1845)
Marmaton	4812 (-1845)	
Marmaton Porosity	5169 (-2202)	5208 (-2241)
Morrow Fm	5812 (-2845)	6140 (-3173)
Upper Morrow Sn	5838 (-2871)	5868 (-2901)
Lower Morrow Sn	6112 (-3145)	6140 (-3183)
Chester Fm	6140 (-3173)	6435 (-3468)
Lower Chester Sn	6415 (-3445)	6426 (-3456)
St. Genevieve	6435 (-3468)	6540 (-3573)
St. Louis	6540 (-3573)	
St. Louis Oolitic Zone	6603 (-3636)	6650 (-3683

TUBING RECORD size 2 7/8 set at 6371 packer at 6371 | Liner Run ☐ Yes ☒ No

Date of First Production Lower Morrow 12/7/84 Lower Chester Shutin | Producing method ☒ flowing ☒ pumping ☐ gas lift ☐ Other (explain)

	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Estimated Production Per 24 Hours	Lower Chester Sand 45	10	0	225	40
	Lower Morrow Sand 40 Bbls	35 MCF	8 Bbls	1180 CFPB	42

Disposition of gas: ☐ vented ☒ sold ☐ used on lease

METHOD OF COMPLETION ☐ open hole ☒ perforation ☐ other (specify) ☒ Dually Completed. ☐ Commingled

PRODUCTION INTE 6416-6426/Lower Chester 6121-6130/Lower Morrow

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	12 1/4	8 5/8	23	1686	HalLite	500	12 1/2% CaCl,
					Class H	200	10% Salt
Production	7 7/8	5 1/2	15.5	6684	50/50 Pause	210	12 1/2% Gil, 10
					Class H	50	Salt, 2% G

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
shots per foot	specify footage of each interval perforated	(amount and kind of material used)	Depth
	See Attachment #1		

Attachment #1

Squeeze Perfs:
4 shots at 6640, squeeze 25 sacks Class H cement
4 shots at 5832, squeeze 25 sacks Class H cement
4 shots at 6390, squeeze 25 sacks Class H cement
4 shots at 6347, squeeze 75 sacks Class H cement

Production Perfs:
4 shots/ft., 6416 to 6426
Broke down perfs with 30 bbls diesel; treated w/1-5 gal Baker 950A chemical, then 6000 gal gelled diesel with 2300# & 1021 sand; flushed with 102 bb/s gelled diesel;

4 shots/ft. 6121-6130
Broke down perfs with 88 bbl oil & diesel; treated with 220 gal 950-950A chemical, 1500 gal 7 1/2% H Cl with clay stabilizers, bond emulsifier & corrosion inhibitor, flushed with 90 bbl. diesel.
Fracked with 20,000 gal of gelled acid with friction reducer and clay a clay stabilizier and 42,000# of sand and 600 cu. ft. of CO^2.

March 28, 1984

Based upon available geologic information, we believe that a fault exists between the Roy Green #1-19 and other wells to the SW, starting with the Petroleum, Inc., #1 "D" Mueller. This separation by the fault creates two separate sources of supply.

The fault extends in a NW-SE direction and has undergone sufficient movement to separate the Chester Sand. Enclosed are a structure map, an isopach map, a cross-section, and an artist's conception of the progressive slippage on the fault.

The Chester Sand extends from -3484' to -3528' at the Roy Green #1-19. The #1 "D" Mueller location has the sand from -3530' to -3594'. The sand is about 54 feet lower and 20 feet thicker at the Mueller well than at the Roy Green #1-19. The cross-section shows that the top of the Chester Sand has a regional dip to the SW of about 45 feet per mile. Because the Mueller well is located little more than half a mile south from the Roy Green #1-19, the structural and thickness differences are too great to be accounted for by regional dip.

We believe that the existence of a high-angle fault best explains the anomalous structural position of the Chester Sand at the Roy Green #1-19. Because of this fault we believe that we are producing from a new pool.