

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 32158
Name: H&B Petroleum Corporation
Address: P.O. Box 277
City/State/Zip: Ellinwood, Kansas 67526
Purchaser: Cooperative Refining, LLC
Operator Contact Person: Al Hammersmith
Phone: (316) 564-3002
Contractor: Name: Shields Drilling Company
License: 5184
Wellsite Geologist: Todd Morgenstern

Designate Type of Completion:

☒ New Well ☐ Re-Entry ☐ Workover
☒ Oil ☐ SWD ☐ SIOW ☐ Temp. Abd
☐ Gas ☐ ENHR ☐ SIGW
☐ Dry ☐ Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

☐ Deepening ☐ Re-perf. ☐ Conv. to Enhr./SWD

☐ Plug Back ☐ Plug Back Total Depth

☐ Commingled ☐ Docket No. _____

☐ Dual Completion ☐ Docket No. _____

☐ Other (SWD or Enhr.?) ☐ Docket No. _____

8/10/00 8/19/00 FROM CONFIDENTIAL

Spud Date or
Recompletion Date

Date Reached TD

Completion Date or
Recompletion Date

API No. 15 - 185-231050000

County: Stafford

n/2 se nw Sec. 30 Twp. 21 S. R. 11 ☐ East ☒ West

1,610 feet from S / (N) (circle one) Line of Section

1,860 feet from E / (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE SE (NW) SW

Lease Name: Duggan Well #: 4

Field Name: Sand Hills

Producing Formation: Arbuckle

Elevation: Ground: 1,786' Kelly Bushing: 1,791'

Total Depth: 3,612' Plug Back Total Depth: 3,612'

Amount of Surface Pipe Set and Cemented at 550 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.

Drilling Fluid Management Plan ALT 1 8/21/00
(Data must be collected from the Reserve Pit)

Chloride content 6800 ppm Fluid volume 3000 bbls

Dewatering method used hauled offsite & evaporation

Location of fluid disposal if hauled offsite:

Operator Name: Bob's Oilfield Service, Inc.

Lease Name: Teichmann License No.: 32408

Quarter SW Sec. 16 Twp. 22 S. R. 12 ☐ East ☒ West

County: Stafford Docket No.: D23,722

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of 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 geologist well report 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.

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: President Date: 10/11/00

Subscribed and sworn to before me this 11th day of October

Notary Public: [Signature]
NOTARY PUBLIC - STATE OF KANSAS
Elaine F. Wendel

Date Commission Expires: 8/30/03

KCC Office Use ONLY

☒ Letter of Confidentiality Attached
☒ If Denied, Yes ☐ Date: _____
☒ Wireline Log Received
☒ Geologist Report Received
☐ UIC Distribution

IDG

Operator Name: H&B Petroleum Corporation Lease Name: Duggan Well #: 4
 Sec. 30 Twp. 21 S. R. 11 ☐ East ☒ West County: Stafford

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

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
 (Submit Copy)

List All E. Logs Run:

Dual Compensated Porosity, Dual Induction,
 Microresistivity, **BOREHOLE COMPENSATED SONIC**

☒ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Andydrite	538	+1253
Topeka	2,750	-961
Brown Lm	3,177	-1,384
Lansing	3,197	-1,406
Arbuckle	3,528	-1,737

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 (Used)	12 1/4"	8 5/8"	28	550'	Common	300	2% gel/3% cc
Production (New)	7 7/8"	5 1/2"	14	3,646'	ASC	160	2% gel/5#Kol/sx

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input checked="" type="checkbox"/> Plug Off Zone	3,528-52'	Common	100	

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	3,528-52'	750 gals 15% INS acid	
4	3,554-74'	750 gals 15% INS acid	
4	3,574-90'	2,000 gals 15% INS acid	
4	3,528-42'	1,000 gals 15% INS acid	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8"	3,554'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Enhr.	Producing Method
9/16/00	<input type="checkbox"/> Flowing <input checked="" 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
	44	TSTM	12	NA	34°

Disposition of Gas

METHOD OF COMPLETION

Production Interval

☒ Vented ☐ Sold ☐ Used on Lease
 (If vented, Sumit ACO-18.)

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled
☐ Other (Specify)

3528'-3542'
 3554'-3574'
 3574'-3590'