ORIGINAL

ORIGINAL

SIDE ONE

ORIGINAL

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 193-20,515-0000

County Thomas

N/2 SE NE Sec. 26 Twp. 9S Rge. 33 East ___ x West

~~3300'~~ 3,630' DWC Ft. North from Southeast Corner of Section

~~990'~~ 660' DWC Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

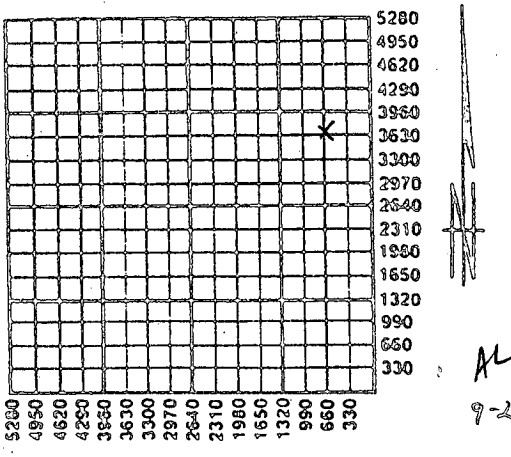
Lease Name Howard Trust Well # 1-26

Field Name Wildcat

Producing Formation NA

Elevation: Ground 3043 KB 3048

Total Depth 4700 PBTD 4601



ALT II
9-25-90

Amount of Surface Pipe Set and Cemented at 316 Feet

Multiple Stage Cementing Collar Used? x Yes ___ No

If yes, show depth set 2624 Feet

If Alternate II completion, cement circulated from 2624

feet depth to surface w/ 1135 sx cmt.

Operator: License # 3295

Name: David W. Clothier

Address 225 N. Market, #333

City/State/Zip Wichita, KS 67202

Purchaser: Koch

Operator Contact Person: David W. Clothier

Phone (316) 267-9227

Contractor: Name: Murfin Drilling Company

License: 6033

Wellsite Geologist: David W. Clothier

Designate Type of Completion
x New Well ___ Re-Entry ___ Workover

x Oil ___ SWD ___ Temp. Abd.
___ 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 ___

Drilling Method:
x Mud Rotary ___ Air Rotary ___ Cable

04-22-90 Spud Date | 04-30-90 Date Reached TD | 05-01-90 Completion Date

RECEIVED
STATE CORPORATION COMMISSION
AUG 23 1990
8-23-90
CONSERVATION DIVISION
Wichita, Kansas

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 J. E. Goss

Title Jack E. Goss, Agent for Operator Date 5-22-90

Subscribed and sworn to before me this 22nd day of May 19 90.

Notary Public Melanie Rau

Melanie Rau

Date Commission Expires 4-18-93

MELANIE RAU
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 4-18-93

SEP 13 1990

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)

Form ACO-1 (7-89)

PL

SIDE TWO

Operator Name David W. Clothier Lease Name Howard Trust Well # 1-26

☐ East
Sec. 26 Twp. 9S Rge. 32W ☒ West

County Thomas

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 (Attach Additional Sheets.) ☒ Yes ☐ No

Samples Sent to Geological Survey ☒ Yes ☐ No

Cores Taken ☐ Yes ☒ No

Electric Log Run (Submit Copy.) ☒ Yes ☐ No

DST#1, 4242-76, Rec 2' O, 62'ocm, IFP 76-76#, ISIP 658#, FFP 91-93#, FSIP 653#

DST#2, 4267-4331, Rec 130'ocm, 20' O, 20' GIP, IFP 64-64#, ISIP 944#, FFP 102-114#, FSIP 869#

DST#3, 4450-4608, Rec 10' M/tr O, IFP 52-52#, ISIP 609#, FFP 61-61#, FSIP 547#

DST#4, 4142-4160(Strad), Rec 300' WM, 2252' W, L. packer didn't hold, FP 159-884#/950-1260#;SIP 1320/1320#

Formation Description

☒ Log ☐ Sample

Name	Top	Bottom
Anhydrite	2612(+ 436)	
Topeka	3806(- 758)	
Heebner	4018(- 970)	
LKC	4068(-1020)	
Stark Shale	4270(-1222)	
BKC	4330(-1282)	
Cherokee	4553(-1505)	
Mississippi	4630(-1582)	

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	12¼"	8-5/8"		316	60/40 Poz	190	2% gel, 3% cc
Production	7 7/8"	4½"		4665	Surefill	150	

PERFORATION RECORD Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4318-30	500 gal 15%mca;2000 gal 15%	NE
4	4250-55	500 gal 15%mca;1500 gal 15%	NE
4	4290-96	250 gal 15% NE	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	4412	4310	☐ Yes ☒ No

Date of First Production	Producing Method
6/22	☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	5		25		40.3

Disposition of Gas:

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

METHOD OF COMPLETION

☐ Open Hole ☒ Perforation ☐ Dually Completed ☐ Commingled

☐ Other (Specify) _____

Production Interval

BJ SERVICES
A Baker Hughes company

PO. Box 4442
Houston, Texas 77210

15-193-20515-00-00

3

CEMENTING LOG ORIGINAL

STAGE NO.

Date 8-18-90 District Oakley, Ks Ticket No. 609768
Company David W. Clothier Rig Cheyenne Unit
Lease Howard Trust Well No. 1-26
County Thomas State Ks
Location Oakley 9W-1E-3/4N Field

CASING DATA PTA ☐ Squeeze ☐
Surface ☐ Intermediate ☐ Production ☒ Liner ☐
Size 4½" Type J-55 Weight 10.5# Collar S&rd

Casing Depths Top surface Bottom 4700

Drill Pipe: Size Weight Collars
Open Hole: Size T.D. ft. P.B. to ft.

CAPACITY FACTORS:

Casing	Bbls/Lin. ft.	Lin. ft./Bbl.
Open Holes:	Bbls/Lin. ft.	Lin. ft./Bbl.
Drill Pipe	Bbls/Lin. ft.	Lin. ft./Bbl.
Annulus	Bbls/Lin. ft.	Lin. ft./Bbl.
	Bbls/Lin. ft.	Lin. ft./Bbl.

Perforations: From ft. to ft. Amt.

CEMENT DATA:

Spacer Type:
Amt. Sks Yield ft³/sk Density PPG

LEAD: Pump Time hrs. Type lightweight
¼# Celloflake Excess
Amt. 200 Sks Yield 1.80 ft³/sk Density 12.7 PPG

TAIL. Pump Time hrs. Type
Excess
Amt. Sks Yield ft³/sk Density PPG

WATER: Lead gals/sk Tail gals/sk Total Bbls.

Pump Trucks Used BSU-6459
Bulk Equip. BJ-272 BSU-6458

Float Equip: Manufacturer
Shoe: Type Depth
Float: Type Depth
Centralizers: Quantity Plugs Top Btm.
Stage Collars
Special Equip:
Disp. Fluid Type Amt. Bbls. Weight PPG
Mud Type Weight PPG

COMPANY REPRESENTATIVE Bob Moorehead CEMENTER Larry D.

TIME (AM/PM)	PRESSURES PSI: DRILL PIPE CASING	PRESSURES PSI: ANNULUS	FLUID PUMPED DATA: TOTAL FLUID	FLUID PUMPED DATA: Pumped Per Time Period	FLUID PUMPED DATA: RATE Bbls Min.	REMARKS
11:00						on loc
11:30						held pre-job safety meeting
11:45						pressure csg to 500 PSI
12:00pm						mix 200 sx lightweight ¼# Celloflake
						shut in @ 250 PSI
1:30						job complete

Thank you
Larry & crew

FINAL DISP. PRESS: PSI BUMP PLUG TO PSI BLEEDBACK BBLS THANK YOU

Form No. SF-[illegible]2 (Rev. 3/90)

AUG 23 '90 10:42 B.J.TITAN-713-895-5851

BJ SERVICES
A Baker Hughes company

P.O. Box 4442
Houston, Texas 77210

15-193-20515-00

CEMENTING LOG ORIGINAL

STAGE NO.

Date 8-15-90 District Oakley, Ks Ticket No. 609766
Company David W. Clothier Rig ~~T-86~~
Lease Howard Trust Well No 1-26
County Thomas State Ks
Location Oakley 9N-1E-3/4W Field

CASING DATA: PTA ☐ Squeeze ☐
Surface ☐ Intermediate ☐ Production ☒ Liner ☐
Size 4½" Type J-55 Weight 10.5 Collar 5 8rd

Casing Depths Top surface Bottom 4700'

Port collar set @ 2630'
Bridge plug set @ 3950'

Drill Pipe: Size Weight Collars
Open Hole: Size T.D. ft P.B. to ft.

CAPACITY FACTORS:
Casing Bbls/Lin. ft. .0159 Lin. ft./Bbl 62.6
Open Holes: Bbls/Lin. ft. Lin. ft./Bbl
Drill Pipe: Bbls/Lin ft. Lin ft./Bbl.
Annulus: Bbls/Lin. ft .0105 Lin. ft./Bbl. 95.5
tbg Bbls/Lin. ft. .0039 Lin ft./Bbl. 258.6
Perforations From ft. to ft Amt.

CEMENT DATA:
Spacer Type:
Amt. Sks Yield ft³/sk Density PPG

LEAD: Pump Time hrs. Type Thriftymix
Excess
Amt. 200 Sks Yield 2.68 ft³/sk Density 11.5 PPG
TAIL: Pump Time hrs. Type Lightweight
Excess
Amt. 285 Sks Yield 1.80 ft³/sk Density 12.7 PPG
WATER: Lead gals/sk Tail gals/sk Total Bbls

Pump Trucks Used BSU-6459
Bulk Equip. BSU-2752 BSU-6457
BS-272 BSU-6458

Float Equip: Manufacturer
Shoe: Type Depth
Float Type Depth
Centralizers: Quantity Plugs Top Btm.
Stage Collars
Special Equip.
Disp. Fluid Type #2° Amt. 10 Bbls. Weight 8.34 PPG
Mud Type Weight PPG

COMPANY REPRESENTATIVE
CEMENTER Larry H.

TIME AM/PM	PRESSURES PSI DRILL PIPE CASING	PRESSURES PSI ANNULUS	FLUID PUMPED DATA TOTAL FLUID	FLUID PUMPED DATA Pumped Per Time Period	FLUID PUMPED DATA RATE Bbls Min.	REMARKS
3:00						on loc + set up trks
3:30						held pre-job safety meeting
3:40						load hole
3:48						pressure test plug to 1500 PSI
3:50						spot sand
5:00						open port collar
5:10						mix lead cement
5:50						mix tail cement
6:15						displace
6:25						close port collar
6:30						run 4 jts
6:40						wash out
7:00						job complete
						cement did not circulate
						lead cement = 95.5 bbl slurry
						tail cement = 91.4 bbl slurry
						total of 186.9 bbl slurry
						Thank you
						Larry & crew

STATE CORPORATION COMMISSION RECEIVED
AUG 23 1990
CONSERVATION DIVISION Wichita, Kansas

FINAL DISP. PRESS: PSI BUMP PLUG TO PSI BLEEDBACK BBLS. THANK YOU

Form No. SR 1092 (Rev. 3/90)

AUG 23 '90 10:39 B.J.TITAN-713-895-5851

BJ SERVICES
A Baker Hughes company

P.O. Box 4442
Houston, Texas 77210

15-193-20515-00-

CEMENTING LOG ORIGINAL

STAGE NO.

Date 8-17-90 District Oakley, Ks Ticket No. 609767
Company David W. Clothier Rig Cheyenne Unit
Lease Howard Trust Well No. 1
County Thomas State Ks
Location Oakley 9W-12-3/4N Field

CASING DATA: PTA ☐ Squeeze ☒
Surface ☐ Intermediate ☐ Production ☒ Liner ☐
Size 4½" Type J-55 Weight 10.5# Collar S&C

Casing Depths: Top O surface Bottom 4700'

Drill Pipe Size ____ Weight ____ Collars ____
Open Hole Size ____ T.D. ____ ft. P.B. to ____ ft

CAPACITY FACTORS
Casing: Bbls/Lin. ft. .0159 Lin ft./Bbl 62.6
Open Holes: Bbls/Lin. ft. ____ Lin. ft./Bbl ____
Drill Pipe: Bbls/Lin ft. ____ Lin. ft./Bbl ____
Annulus: Bbls/Lin. ft. .010 Lin. ft./Bbl 95.5
thru Bbls/Lin. ft. .0039 Lin. ft./Bbl 258

Perforations From ____ ft to ____ ft Amt. ____

CEMENT DATA:
Spacer Type: ____
Amt. ____ Sks Yield ____ ft³/sk Density ____ PPG

50 sk of Thriftymix 2% CC
LEAD: Pump Time ____ hrs. Type Thriftymix
Excess ____
Amt. 200 Sks Yield 2.68 ft³/sk Density 11.5 PPG
TAIL: Pump Time ____ hrs. Type lightweight
Excess ____
Amt. 250 Sks Yield 1.80 ft³/sk Density 12.7 PPG
WATER: Lead ____ gals/sk Tail ____ gals/sk Total ____ Bbls.
50 sk Class A 2% CC 1.17 15.7
Pump Trucks Used BSU-6459
Bulk Equip. BSU-2752, BSU-6457
BSU-2750, BSU-6455
BJ-272, BSU-6458

Float Equip. Manufacturer ____
Shoe. Type ____ Depth ____
Float Type ____ Depth ____
Centralizers: Quantity ____ Plugs Top ____ Btm. ____
Stage Collars ____
Special Equip ____
Disp Fluid Type H2O Amt. 11 Bbls. Weight ____ PPG
Mud Type ____ Weight ____ PPG

COMPANY REPRESENTATIVE Bob Moore Read
CEMENTER Harry H.

TIME AM/PM	PRESSURES PSI DRILL PIPE CASING	PRESSURES PSI ANNULUS	FLUID PUMPED DATA TOTAL FLUID	FLUID PUMPED DATA Pumped Per Time Period	FLUID PUMPED DATA RATE Bbls Min.	REMARKS
1:00pm		8-16-90				on loc + set up trk
2:00pm						logging tlk broke down hold pre-job
6:00pm						load hole + pressure test safety meeting
6:30						release for today
8:00Am		8-17-90				on loc + set up
8:30						hold pre-job safety meeting
9:00						pressure pump to 500 PSI
9:02						mix 50 sk Thriftymix 2% CC
9:17						mix 150 sk Thrifty mix
9:40						mix 250 sk lightweight
10:25						mix 50 sk Class A 2% CC
10:31						wash out pump + lines
10:35						stage cement
11:50						squeeze to 600PSI
11:52						release
12:00						reverse thru + wash out
						job complete for today
						Thank you
						Harry + Crew

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STATE CORPORATION COMMISSION
CONSERVATION DIVISION
Wichita, Kansas
AUG 23 1990

FINAL DISP. PRESS: ____ PSI BUMP PLUG TO ____ PSI BLEEDBACK ____ BBLS. THANK YOU

Form No. SF-2142 (Rev. 3/90)

AUG 23 '90 10:41 B.J.TITAN-713-895-5851