

109-20563

CONFIDENTIAL

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

Operator: License # 5386Name: Production Drilling Inc.
PO Box 680

Address _____

City/State/Zip Hays, KS 67601Purchaser: FarmlandOperator Contact Person: Larry L PattersonPhone (913) 628-1189Contractor: Name: MurfinLicense: 30606Wellsite Geologist: J.O. Farmer IV

Designate Type of Completion

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

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

☐ Deepening ☐ Re-perf. ☐ Conv. to Inj/SWD☐ Plug Back ☐ PSTD☐ Cemented ☐ Decket No. _____☐ Dual Completion ☐ Decket No. _____☐ Other (SWD or Inj?) Decket No. _____4/19/94 4/29/94 4/29/94

Spud Date Date Reached TD Completion Date

API NO. 15- _____

County LOGANSW - NE - SW - Sec. 7 Twp. 13 Rge. 33 ☒ E1650 Feet from S (circle one) Line of Section1650 Feet from E (circle one) Line of SectionFootages Calculated from Nearest Outside Section Corner:
NE, SE, NW or S (circle one)Lease Name Ladenburger Well # 1Field Name Logansport NWProducing Formation Johnson ZoneElevation: Ground 2971 KB 2976Total Depth 4610 PSTD 4597Amount of Surface Pipe Set and Cemented at 270 FeetMultiple Stage Cementing Collar Used? ☒ Yes ☐ NoIf yes, show depth set ~~1874~~ 1873 FeetIf Alternate II completion, cement circulated from ~~1884~~ 1873feet depth to surface w/ 400 sx cmt.Drilling Fluid Management Plan ALT 2 9-20-94
(Data must be collected from the Reserve Pit)Chloride content 5000 ppm Fluid volume 200 bblsDewatering method used Evap

Location of fluid disposal if hauled offsite:

RELEASED

Operator Name _____

Lease JUN 2 8 1995 License No. _____

Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

FROM CONFIDENTIAL County _____ Decket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-139, 82-3-106 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 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 _____

Title President Date 5/24/94Subscribed and sworn to before me this 24 day of May
19 94.

Notary Public _____

Date Commission Expires 8/31/97

K.C.C. OFFICE USE ONLY
F ☒ Letter of Confidentiality Attached
C ☒ Wireline Log Received
C ☒ Geologist Report Received

KCC
KCSDistribution
STATIONER CORPORATION

MAY 26 1994

Operator Name Production Drilling IncLease Name LadenburgerWell # 1Sec. 7 Twp. 13S Rge. 33☐ EastCounty Logan☒ 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 ☒ Yes ☐ No
(Attach Additional Sheets.)Samples Sent to Geological Survey ☐ Yes ☒ NoCores Taken ☐ Yes ☒ NoElectric Log Run ☒ Yes ☐ No
(Submit Copy.)

List All E.Logs Run:

DIL; CNL; CDL; ML/G; CBL/GR

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

Name	Top	Datum
Anhy	2428	+548
Heeb	3847	-871
LKC	3893	-917
Ft Scott	4395	-1419
Johnson	4468	-1492
Miss	4567	-1597
See Attached logs for DST's		

CASING RECORD

☐ New ☒ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.S.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4	8 5/8		270	60/40poz	180	3%CC 2%gel
Production	7 7/8	4 1/2	10.5	4597	60/40poz	225	10%salt

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
☒ Perforate ☒ Pretest Casing ☐ Plug Back TD ☐ Plug Off Zone	0 1884	Allied Light	325	81# FLo-Seal

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	4510-14	2000 gal 15% NE	4510'-4514'
4	4470-90	2000 gal 15% NE	4470'-4490'

TUBING RECORD	Size	Set At	Packer At	Liner Run	☐ Yes ☐ No
	2"	4547	NA		
Date of First, Resumed Production, SMD or Inj.	5/24/94	Producing Method	☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)		
Estimated Production Per 24 Hours	Oil 50 Bbls.	Gas Mcf	Water 1Bbl	Gas-Oil Ratio	Gravity 35%

Disposition of Gas:

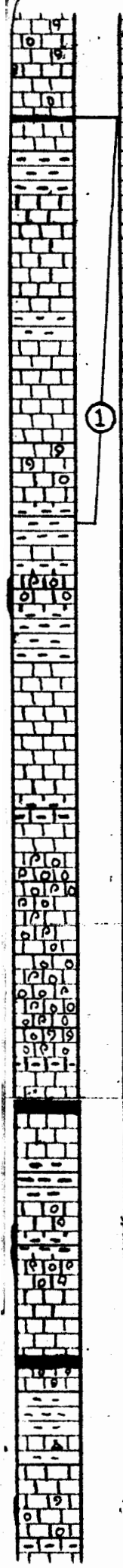
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, submit ACO-18.)

METHOD OF COMPLETION

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

Production Interval

4470-4515 OA

	LS: AA, N.S. Sh: Gy LS: Lt. main mdstn. mostly dn. TR (2-3 pcs/tray) with fr. intsch + pp, & moldic p. Fr-GSFO in these pss. Pass v. frt. odor. Sh: Lt Gy LS: Lt. vfn-fnln mdstn. dn. N.S. LS: Lt. fn ln mdstn, sm. wkystn. dn. N.S. Sh: Gy-Grn. LS: Lt-Lt Gy. Sngln grsta & wkystn (rad. foss). Tr (2-3 pcs/tray) w/ p. pp p. FSFO in these pss. p. flour + cat. No odor. Sli. Chky. Sh: Gy, Grn. LS: Lt-Gy. v. fnln mdstn. dn. N.S. LS: Lt. m. ln mdstn. dn. N.S. Sh: Maroon, Gy LS: Lt. Gy. v. fnln mdstn. (m. grn rad + ang. foss. grns) mostly dn. Tr. p. moldic p. N.S. LS: AA, p pp + moldic p. N.S. LS: Lt tan. fnln wkystn. (m. c. grn rad + ang. foss) Tr. pp + moldic p. N.S. Sh: Blk, Carb. LS: Lt. Brown. v. fnln mdstn. dn. Tr. pp p. N.S. Sh: Maroon + Brown. LS: Crm-tan. fnln mdstn + wkystn. blk + ang. mostly ang. foss grns. mostly tight. Sm. fr. intsch moldic p, barren. Tr (2-3 pcs/tray) dk blk oil stn. NFO, No odor. LS: Lt. v. fnln mdstn. dn. N.S. Sh: Blk LS: Brown. v. fnln mdstn + wkystn (ang. foss) dn. N.S. Sh: Gy, Grn, Maroon, sl. Sandy LS: Lt. v. fnln mdstn, dn. N.S. sl. Δ⁴, sm. pyrite Sh: Gy LS: Lt. v. fn. grn grsta. dn. N.S. LS: Lt tan. fn. m. ln mdstn + wkystn (ang. foss grns) Ang. blk. p. fr. intsch moldic + w. gy. p. sm. barren. 1 pc. w/ dk blk oil stn. NFO. No odor. v. flour.	3922' bit trip, lost 1 cone Mud Engineer check (63489) Vis 39 LCM 0# Wt 9.0 pH 11.0 WL 9.6 Cl 3,500 ppm DST #1 3915'-3971' "Lans 84C" 45-45-60-60 REC: 670' MW (Cl. 60,000) FP: 49-226#, 236-324# SIP: 1226-1216# HP: 1936-1886# BHT-112°F Strap .72' Short to Board. SHS: 1/2" Mud Engineer Check (3906) Vis 45 LCM 0# Wt 9.0 pH 11.0 WL 8.4 Cl 3000 ppm Bottoms Up-50	
	Vis 50 Wt 9.0 "H" ○ 90" ○ 30" ○ 10"		

Vis 47 Wt 9.2
Cherokee 4422 (1446)
EL: 4422'

LS: Crm, v-fine mndstn, an. n.s.
Sh: Blk, Carb
LS: Brown, v-fine mndst + wkystn. dn NS
Sh: Gy
LS: Wt-fn grn grnstr. chky, Soft. N.S.

Mud Eng. Chk (4490') #4183
Vis 47 LCM 0#
Wt 9.4 pH 10.5
WL 9.4 BU: 57"
CL 4000 mg/L

DFS 60'

LS: Lt. Gy. v-fine mndstn. tr (2-3 Pcs) w/p.p. Lt.
brown str. 1 pc. w/FO. N.O.
Sh: Gy.

DST #2 4445'-4490' (Se 2)
Misrun - Hit bridge at 1876'
HP: 1086# - 1086#
BHT: 86° F

LS: Lt. Gy. v-fine mndstn. dn. NS.
Sh: Gy, Maroon
LS: Wt-Lt. Brown, v-fine grn. dn N.S.

DST #3 4445'-4490' (Se 2)

Johnson Zone 4463 (-1492)
EL: 4490'

Sh: Maroon + Gy

45'-45"-45'-60"
1st Open: 808 in 8" (2" blow SI)
2nd Open: 808 in 17" (2" blow SI)
Recovery: (530' Fluid)
990' Gas in Pipe
300' CGO (70% oil-39%)
170' MCGO (60% O, 10% G)
60' OCQM (30% O, 10% G)
FP: 44-147# 167-216#
SIP: 1066-1056#
HP: 2390# - 2289#
BHT: 118° F

LS: Lt. Brown, v-fine mndstn. mostly dn. 1-270
Smpl w/fr. Intln vug. d. w/Str. Lt. Brown oil
droplets. Lt. Petrolif odor. Tr. cut. p. Flour.
LS: MB, sl. less show

Vis 47 Wt 9.3 WL 9.4
Poor Samples (High Vis)

LS: Lt. Brown, v-fine mndstn. mostly dn. 170
(7-8 pcs/tray) w. dk blk. DO str. in fr. Intln +
vug d. 1 pc w/FO. No odor

LS: MB, 1 pc. w/ Lt. Brown Str. NFO, No odor

(Samples better)

LS: Lt Brown-Gy. v-fine mndstn. Dn. 2-3 pcs/tray w/ dk.
Blk. D.O. Str. in p.p. vug d. N.FO. No odor.

Mud Eng. Check (#4279)
Vis 100+ LCM 0#
Wt 9.3 pH 10.5
WL 10.4 BU-60"
CL 5000 mg/L

SS: Wt-clear, m grn, well sorted + rded grns.
Clusters semi hard. Some loose sand grns.
Some (10-207) Sand clusters w/ Calcium cement.
All sand clusters w/ excellent show FO. (100' sm. lt. brown
oil droplets/clusters) Gd. odor on breaks, v. faint odor
in smpl. cup. Fr. Flour. Gd. Cut. Fr. Intntr. d.
Sh: Gy, Brown, Grns.

DST #4 4506-20 (Se 2) Sand
30"-30"-30"-30"
1st Open: Weak steady surf blow
2nd Open: No blow
Recovery: 5' D. Mud.
FP: 19-19#, 19-19
SIP: 966-828#
HP: 2390-2390#
BHT: 120° F

LS: Wt. v-fine grn. grnstr. chky. dn. N.S.

Sh: Lt. Gy, Dk. Gy

LS: Gy. v-fine mndstn. dn. NS.

Sandy LS: Wt. v-fine grn LS w/ lg. amt. fine grn, w/ sorted
rded sand grns. chky. v. Soft + friable. N.S.
sl. Glac.

SS: Lt. tan, w/ fine grn w/ sorted + rded sand grns
3-4 clusters/tray. v. Soft + friable. Fair amt.
loose grns in smpl. tray. N.S. No odor.
sl. Glac.

Mississippi 4567 (-1591)
EL: 4568'

LS: Wt. v-fine mndstn. dn. N.S. Sl. Sandy.

SS: Wt. chr Lt. Grn. m. grn. med. well sorted, fairly well
rounded. Calcite cement w/ fr. amt. kaol. Clusters soft
and friable. Fair amt. loose sand grns. N.S. N.O.

< Mud Pump down (3hrs)

LS: Crm. fine mndstn. sandy + chky. N.S.

LS: Lt. Gy. v-fine mndstn + sm. wkystn. dn. NS.

Vis 53 Wt 9.2

LS: Wt. v-fine grn grnstr. v. sandy (p. sorted, med. well
rded sand grns) dn. N.S.

Sandy LS: MB

Final Mud. Check (#4409)
Vis 64 LCM 0#
Wt 9.2 pH 10.0
WL 10.8 Bottoms Up: 58"
CL 4000

Sandy LS: MB

RTD 4610'

Production Drilling - #1 Ladenburger "A"
SW NE SW Sec. 7- 135-33W
Lodan County, Kansas