

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

Operator: License # 6234Name: Petroleum Production Management, Inc.Address 209 E. William, Suite 200City/State/Zip Wichita, KS 67202Purchaser: Pawnee Pipeline & Marketing Co., Inc.Operator Contact Person: Frank E. Novy, Sr. V.P.Phone (316) 265-4651Contractor: Name: Murfin Drilling CompanyLicense: 30606Wellsite Geologist: Joe Baker

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:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

☐ Deepening ☐ Re-perf. ☐ Conv. to Inj/SWD☐ Plug Back ☐ PBTB☐ Commingled ☐ Docket No. _____☐ Dual Completion ☐ Docket No. _____☐ Other (SWD or Inj?) ☐ Docket No. _____9-10-94 9-14-94 9-15-94
Spud Date Date Reached TD Completion DateAPI NO. 15- 055-21333County Finney- - C - SW Sec. 34 Twp. 21S Rge. 34W ☒ E W1320 Feet from ☒ N (circle one) Line of Section3960 Feet from ☒ W (circle one) Line of SectionFootages Calculated from Nearest Outside Section Corner:
NE, ☒ SE, NW or SW (circle one)Lease Name Aeilts Well # 6Field Name HugotonProducing Formation ChaseElevation: Ground 2958' KB 2963'Total Depth 2730' PBTB 2688'Amount of Surface Pipe Set and Cemented at 9 jts. @ 354 FeetMultiple Stage Cementing Collar Used? ☐ Yes ☒ No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 2729'feet depth to pit _____ w/ 720 sx cmt.Drilling Fluid Management Plan ALT 2 JH 8-11-95
(Data must be collected from the Reserve Mt)Chloride content 39,000 ppm Fluid volume 4200 bblsDewatering method used allowed to dry naturally

Location of fluid disposal if hauled offsite:

Operator Name _____

Lease Name _____ License No. _____

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

County _____ Docket 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 82-3-130, 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.

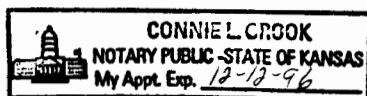
Signature Frank E. NovyTitle Senior Vice President Date 5-18-95Subscribed and sworn to before me this 18th day of May, 19 95.Notary Public Connie L. CrookDate Commission Expires 12-12-96

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

Distribution
☒ KCC ☐ SWD/Rep ☐ NGPA
☒ KGS ☐ Plug ☐ Other (Specify) TS

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Form ACO-1 (7-91)



MAY 22 1995

CONSERVATION DIVISION
WICHITA, KS

SIDE TWO

Operator Name Petroleum Production Management, Inc.Lease Name AeiltsWell # 6Sec. 34 Twp. 21S Rge. 34W☐ EastCounty Finney☒ 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:

DLL-MSFL
CNCD-GR-caliper
Complex Lith. Analysis
Cement Bond-MSG-CCL

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

Name	Top	Datum
B/Stone Corral	2044'	+919
Herrington	2494'	+469
Krider	2523'	+440
Winfield	2572'	+391
Towanda	2639'	+324
Fort Riley	2691'	+272

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#	354'	60/40 poz.	220	3% CC
Production	7 7/8"	4 1/2"	9 1/2#	2729'	HLC	500	2% CC, 10# gil/sx
					prem. EA2	100	5% calseal, .6%

ADDITIONAL CEMENTING/SQUEEZE RECORD

Halad 322, 15% salt, circ. 64 sx. to pit

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ Plug Off Zone				

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	2640-60' - Towanda	2000 gal. 15% FE acid each zone(total	
4	2596-2606' - Winfield	6000 gal.) frac perfs w/952 bbls.	
4	2534-44' - Krider	Boragel & 127,400# 12-20 mesh sand	

TUBING RECORD		Size 2 3/8"	Set At 2459'	Packer At	Liner Run ☐ Yes ☒ No			
Date of First, Resumed Production, SWD or Inj. 2-10-95			Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)					
Estimated Production Per 24 Hours	Oil	Bbls. 0	Gas	Mcf 36	Water	Bbls. 50	Gas-Oil Ratio NA	Gravity

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

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

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled

☐ Other (Specify) _____

DAILY WELL RECORD

ORIGINAL

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KANSAS CORPORATION COMMISSION

POOL Hugoton

Lease No. KS-132006-0

DEC 22 1994

AC

AFE No. 94032

CONSERVATION DIVISION
WICHITA, KS

API#15-055-21333

LEASE: Aeilts #6

LOCATION: C SW Sec. 34-21S-34W

ELEVATION: 2958 GR 2963 KB County Finney State Kansas

OPERATOR: Petroleum Production Management, Inc. Phone (316) 265-4651

CONTRACTOR: Murfin Drilling Co. Phone (316) 267-3241

CORRELATION WELL Aeilts #5

FORMATION TOPS	SAMPLE TOPS	LOG TOPS	
B/Stone Corral	2044' +919 (-5)		MIRT 9-10-94
Herrington	2495' +468 (-9)	2494' +469	SPUD 1:15 P.M. 9-10-94
Krider	2526' +437 (-11)	2523' +440	SURFACE 9 jts. 8 5/8" set @ 354'
Winfield	2574' +389 (-11)	2572' +391	w/220 sx. 60/40 poz. 3% CaCl 2%
Towanda	2640' +323 (-7)	2639' +324	gel. Circ. 8 bbl. cmt. to pit.
Fort Riley	2691' +272 (-4)	2691' +272	REMARKS
RTD	2730' +233	2726' +237	

DATE	REPORT
9-10-94	MIRT. Spud @ 1:15 p.m. w/12 1/4" bit. Set 8 5/8 @ 354' w/220 sx. 60/40 poz. w/3% CaCl-2% gel. Circ. 8 bbls. cmt. to pit. Plug dn. @ 7:30 pm.
9-11-94	
7:30 am	Drilled out plug. Dev. 1/4° @ 354'.
9-12-94	Drilling @ 2035'. Dev. 1/2° @ 848', 3/4° @ 1407'. Vis. - 34. MW - 9.4.
9:30 am	RTD 2550'. Preparing for DST #1 2501-50' (Krider)
9-13-94	
3:00 am	DST #1 2501-50' (Krider) Open 45, SI 45, Open 45, SI 60. 1st open - open - very weak blow - died in 38 min. 2nd open - no blow. Rec. 15' mud. IFP-31-31. FFP-41-41. ISIP 31#. FSIP 31#.
8:00 am	Drilling ahead. Dev. 1/2° @ 2550'. Vis. 55. MW 9.4. Wtr. loss 14.2 cc. Chlorides 43,000.
3:30 pm	DST #2 2578-2610' (Winfield) Open 90, SI 60, Open 120, SI 90. 1st open - very weak blow - built to 1" in bucket. 2nd open - strong blow off btm. of bucket thruout. Rec. 540' gas in drill collars, 20' mud. IFP-50-50. FFP-54-54. ISIP 350#. FSIP 340#. Drilling ahead.
9-14-94	
9:30 am	RTD 2678'. Vis. 48. MW 9.3. Wtr. loss 18.2 cc. Chlorides 39,000. Running DST #3.

ORIGINAL

9-14-94 (Cont.)

9:30 am DST #3 2644-2678' (Towanda) Open 90, SI 60, Open 90, SI 90. 1st open - weak blow increase to strong in 70 min. 2nd open - strong blow w/GTS in 40 min. Gauge 4.5 MCF. 75 min. - 6.7 MCF. Stab. for remainder of test thru 1/4" choke. Rec. 20' mud. IFP-31-31. FFP 31-31. ISIP 312#. FSIP 312#. Temp. 94°.

3:00 pm Back on btm. drilling.

6:00 pm RTD 2730'. Conditioning hole to log.

8:00 pm RU Halliburton Wireline & ran DLL-MSFL & CND-GR caliper. LTD 2727'.

11:00 pm Logging complete. TIH w/drill pipe to condition hole to run csg.

9-15-94 Dev. 1° @ 2730'. Vis. - 48. MW - 9.3. Wtr. loss 8.0 cc. Chlorides 31,000.

1:00 am Start laying dn. drill pipe.

4:30 am PU 4 1/2" guide shoe & installed on 1 jt. 10 1/2# csg. & TIH w/62 jts. 4 1/2" 9 1/2# used - tested to 4400# - 8 RD csg. Insert float in 1st jt. @ 2695'. Ran 10 centralizers. Ran 2 cement baskets - 1 @ 2050' & 1 @ 1250'. Wash 3' of fill off btm. & set csg 1' off btm. @ 2729'.

7:00 am RU Halliburton. & pump 40 bbl. - 3% salt wtr. Pump 500 gal. mud flush - mix 2 sx. gel - mix & pump 500 sx. HLC w/2% CaCl - 10# Gil/sx. Tail in w/100 sx. premium EA-2 cmt. containing 5% calcium seal, .6% Halad - 322 - 15% salt. Pump cmt. in turbulent flow @ 6 BPM while reciprocating csg. Max. pumping cmt. press. 600#. Circ. 64 sx. cmt. to pit. Had full circulation thruout job.

7:40 am Bump plug - pressure to 1000#. Held 3 min. - ok. Rel. press. - float holding ok. Transfer csg. to bradenhead slips. RDMO Halliburton - zero point 7' ABH. Job complete. Release rig.

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CONSERVATION DIVISION
WICHITA, KS

PETROLEUM PRODUCTION MANAGEMENT, INC.

WELL REPORT

ORIGINAL

X Completion

Workover

POOL Hugoton

LEASE # KS-132006-0

API# 15-055-21333

AFE # 94032

LEASE Aeilts #6 Sec. 34 Twp. 21S Rge. 34W Spot C SW

ZERO POINT 7' ABH ELEV. 2958 GR 2963 KB CO. Finney STATE Kansas

OPERATOR Petroleum Production Management, Inc. RTD 2730' LTD 2726' PBTD 2688'

CONTRACTOR _____ CSG. SIZE & 8 5/8" @ 354' 28#
DEPTH SET 4 1/2" @ 2729' WT. 9 1/2#

NEW OIL WELL _____ Perfs. _____ Zone _____

NEW GAS WELL X Perfs. 2534-44' - 4 JSPF Zone Krider
Perfs. 2596-2606' - 4 JSPF Zone Winfield
Perfs. 2640-60' - 4 JSPF Zone Towanda

B.P. _____

OLD OIL WELL _____ Perfs. _____ Zone _____

OLD GAS WELL _____ Perfs. _____ Zone _____

B.P. _____

REMARKS: _____

REPORT

10-3-94 MIRU Gressel WS.
Daily cost - \$400

10-4-94 Pick up 4 1/2" csg. scraper, tbgs. & TIH. Tag up @ 2691' - float collar @ 2695'. - 4' fill. POOH w/tbgs. & scraper. RU HLS - run bond log, GR-CCL from PBTD 2688' to 2000', 1600' to 1000'. POOH w/logging tool. PU 3 - 3/8" perf guns & TIH. Perf Towanda 2640-60' - 4 SPF - 32 gram jet charge - total 80 holes. Perf Winfield 2596-2606' - 10' - 4 SPF - 32 gram jet charge - total 40 holes. Perf Krider 2534-44' - 10' - 4 SPF - 32 gram jet charge - total 40 holes. POOH w/guns. All shots fired. RD HLS & SDFN. Cost - 1200 rig, 5200 HLS, 500 tools, 450 supervision.
Daily cost - \$7,350 Cum. cost - \$7,750

10-5-94 Pick up Halliburton RBP & 4 1/2" RTTS pkr., 2 3/8" tbgs. & TIH. Set RBP @ 2668'. Set RTTS @ 2630'. Pump 2000 gal. 15% FE acid w/additives - break dn. @ 1500# - treat @ 3 BPM @ 500#. ISIP 0#. Lower pkr. & latch onto RBP. Pull RBP to 2630' & set. Pull RTTS pkr. to 2590'. Spot acid across perfs & set RTTS. Acidize Winfield perfs w/2000 gal. 15% FE acid w/additives. Break dn. @ 300# & treat @ 3 BPM @ 325#. ISIP 0#. Lower pkr. & latch onto RBP. Pull RBP up to 2580' & set. Pull RTTS to 2523'. Pump acid to perfs & set pkr. Treat Krider w/2000 gal. 15% FE acid w/additives. Break dn. @ 295#. Acidize @ 3 BPM @ 295#. ISIP 0#. Latch onto RBP & POOH w/RTTS & RBP. Lay Halliburton tools dn. SDFN. Cost - 1000 rig, 10,000 Hal.
Daily cost - \$11,450 Cum. cost - \$18,750

10-6-94 2:00 p.m. - RU Halliburton & prepare to frac. 3:30 p.m. - frac Towanda, Winfield & Krider perfs dn. 4 1/2" csg. w/952 bbl. Boragel G-3195 fluid system. Pump 15,000 gal. pad @ 40 BPM @ 450#. Pump 3000 gal. w/2 PPG 12-20 sd. @ 40 BPM @ 420#. Pump 2000 gal. w/3 PPG 12-20 sd. @ 40 BPM @ 300#. Pump 2000 gal. w/4 PPG 12-20 sd. @ 40 BPM @ 290#. Pump 3000 gal. w/5 PPG 12-20 sd. @ 40 BPM @ 206#. Pump 4000 gal. w/6 PPG 12-20 sd. @ 40 BPM @ 200#. Pump 4000 gal. w/7 PPG 12-20 sd. @ 40 BPM @ 250#. Pump 5000 gal. w/8 PPG 12-20 sd @ 41 BPM @ 300#. Pump 1725 gal. flush @ 43 BPM @ 500#. ISIP 60#. 5 min. - 0#. Total sand pumped 127,140# 12-20 mesh sd. Job complete @ 4:15 p.m. SDFN. Cost - 30,000 Hal., 1200 rig, 1000 wtr., 1000 frac tank, 450 supervision.

Daily cost - \$33,650

Cum. cost - \$52,400

10-7-94 Well on vac. PU 3 1/2" sand pump & TIH. Fluid 400' from surface. Had 125' sand fill up. Could not pick up any sand - rig up csg. swab & swab csg. to 1750'. POOH. PU sand pump & TIH. Found sand 500' off btm. Made 2 runs w/ sand pump & sand pump plunger stuck. SDFN. Will order bulldog bailer for Mon. a.m. Cost - 600 rig, 225 supervision.

Daily cost - \$825

Cum. cost - \$53,225

10-10-94 PU bulldog bailer. Installed check valve - jar assembly 40 jts. up 2 3/8" tbg. & TIH. Fell thru spot @ 2200' & continued in hole to 2582'. Start bailing sand & cleaned out to 2589' when valve hung up. POOH w/tbg. Removed valve. Could not wash out valve & make stroke. Cleaned out 2 jts. full of frac sand. Called Plainville for replacement valve & SDFN.

Daily cost - \$1,000

Cum. cost - \$54,225

10-11-94 PU bulldog bailer w/blade bit on btm. 4 jts. 2 3/8" tbg. Installed check valve - jar assembly & TIH on 2 3/8" tbg. Tag up @ 2589'. Drilled & clean out frac sand @ 2601' & quit making hole - bit not penetrating sand. Tbg. torqueing up. 11:00 a.m. - POOH to check equipment. Rec. 1/2 jt. sand. Blade bit shiney on btm., but showing no wear or scratches on side to indicate working on iron. PU 3 3/4" - 3 cone rock bit, related equipment as above & TIH. Tag up @ 2601'. Rotating bit attempting to make hole. Set dn. all tbg. weight & bit torques up. Work 30 min. to 1 hr. & could not make any hole. POOH w/equipment. Had 1 cone on bit locked up w/wear to 1 cone on btm. Other 2 cones look fine w/no wear. Had no scratches on sides of bit to indicate working on metal. Did rec. 2 jts. tbg. full of frac sand. Lay dn. bit. PU 2 3/8" tbg. notched collar - same installation as above & TIH. Tagged up @ 2601'. Work & rotate collar for 30 min. to 1 hr. w/no success. Could not make hole. POOH w/all equipment & lay dn. bulldog bailer & check valve assembly. Release tools & SDFN. Will order foam unit for tomorrow & attempt to clean remaining frac sand out of csg. Cost - 1000 rig, 1800 tools, 250 bit, 450 supervision.

Daily cost - \$3,500

Cum. cost - \$57,725

10-12-94 RU Weatherford foam unit & compressed air unit & power swivel. PU tbg. & install notched 2 3/8" tbg. collar w/cut rite on btm. Installed check valve above collar, 2 3/8" tbg. & TIH. Installed top check valve in 1st jt. @ top of string. RU foam unit. Press. up on tbg. - would not go thru tbg. Believe to have tbg. plugged. POOH w/tbg. & found btm. check valve installed upside dn. Turned valve around & TIH. Connect up foam unit, power swivel & cleaned out sand from 2584' to float collar - PBTD 2695' in 45 min. Circulated sand up csg. annulus w/foam & circulated foam from hole & displaced foam w/salt wtr. POOH w/tbg. & check valve. RD Weatherford & release foam unit & air compressor. PU 14' MA w/top 3' slotted, SN, 2 3/8" tbg. & TIH on 80 jts. used - tested to 6000# - EUE tbg. from R. Crist #1. Set btm. of MA @ 2459'. SDFN. Cost - 1000 rig, 2000 foam unit, 450 supervision.

Daily cost - \$3,450

Cum. cost - \$61,175

10-13-94 PU 2 X 1 1/2 X 10' BHD pump w/6' gas anchor, 2' pony rod on top of pump & TIH w/97 used 5/8" rods from R. Crist #1. Could not get pump to SN. POOH w/rods & pump. POOH w/tbg. Found foot-check valve in last jt. of tbg. Removed foot-check valve & reran all equipment as before. Seat pump ok. Used 1 - 8' & 1 - 6' 5/8" rod sub, polish rod & space pump out & clamp rods off. RDMO Gressel. Cost RECEIVED, 2430 tbg., 612 rods, 400 pump, 1000 misc. eqpmt, 450 supervision. KANSAS CORPORATION COMMISSION

Daily cost - \$5,892

Cum. cost - \$67,067

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10-14-94 Moved & set Bethlehem D-40 pumping unit w/C-66 engine & connect to polish rod. Connect propane tank & POP @ 2:00 p.m. Pumping ok. Cost - 1500 unit (15 HP elec mtr. & control panel), trucking 250.
Daily cost - \$1,750 Cum. cost - \$68,817

10-15-94 Unit dn. due to rain storm & out of propane.

10-16-94 WO propane.

10-17-94 WO propane.

10-18-94 Propane truck filled propane tank. Changed engine sheavs & increased SPM. POP @ 1:30 p.m.

10-19-94 Pumped 150 BW to pit. 250# CP. Pumping no fluid. SD unit. Waiting for gas line to be installed.

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WICHITA, KS