

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, Inc.Operator Contact Person: Frank E. Novy, Sr. V.P.Phone (316) 265-4651Contractor: Name: Murfin Drilling CompanyLicense: 30606Wellsite Geologist: none

Designate Type of Completion

 New Well X Re-Entry Workover

 Oil SWD SLOW Temp. Abd.
X Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: Skelly Oil Co.Well Name: Finnup "A" #1Comp. Date 6/30/72 Old Total Depth 4800

 Deepening X Re-perf. Conv. to Inj/SWD
X Plug Back 2750' PBSD
 Commingled Docket No.
 Dual Completion Docket No.
 Other (SWD or Inj?) Docket No.

10/20/94 10/21/94 10/21/94
~~Start~~ Date OF **START** Date Reached TD Completion Date OF
OF **WORKOVER** **WORKOVER**

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 8-7-95Subscribed and sworn to before me this 7th day of August, 19 95.Notary Public Connie L. CrookDate Commission Expires 12-12-96Amended to add IP info 8-7-95
API NO. 15- 055-20085-001County Finney - C - SW - NW Sec. 28 Twp. 21S Rge. 33W X E3300 Feet from S (circle one) Line of Section4620 Feet from E (circle one) Line of SectionFootages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)Lease Name Finnup Well # #2 OWWOField Name HugotonProducing Formation ChaseElevation: Ground 2884' KB 2889'Total Depth 2750' PBSD 2712'Amount of Surface Pipe Set and Cemented at 10 3/4" @ 814' FeetMultiple Stage Cementing Collar Used? Yes X NoIf yes, show depth set FeetIf Alternate II completion, cement circulated from feet depth to w/ sx cmt.Drilling Fluid Management Plan REWORK 8-11-95
(Data must be collected from the Reserve Pig)Chloride content 41.000 ppm Fluid volume 4300 bblsDewatering method used allowed to dry naturallyLocation of fluid disposal if hauled offsite: Operator Name Lease Name License No. Quarter Sec. Twp. S Rng. E/WCounty Docket No.

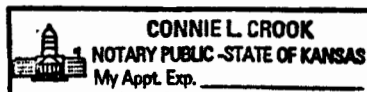
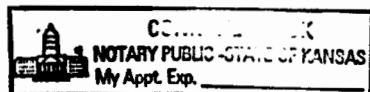
K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached
C X Wireline Log Received
C Geologist Report Received

Distribution

X KCC SWD/Rep NGPA
KGS Plug Other (Specify) FS

Form ACO-1 (7-91)



SIDE TWO

Operator Name Petroleum Production Management, Inc. Lease Name Finnup Well # 2 OWO

Sec. 28 Twp. 21S Rge. 33W
☐ East
☒ West

County Finney

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 ☐ No

Cores Taken ☐ Yes ☒ No

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

List All E.Logs Run:

DLL-MSFL
 SDL-DSN-GR
 Acoustic Cement Bond
 HMST-GR

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

Name	Top	Datum
Herrington	2510'	+379
Krider	2554'	+335
Winfield	2590'	+299
Towanda	2649'	+240
Fort Riley	2702'	+187

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"	10 3/4"		814'			
Production	7 7/8"	4 1/2"	9 1/2#	2744'	HLC	1250	2% CC.10# gill/sx
					prem. EA2	250	5% calseal, .6%

ADDITIONAL CEMENTING/SQUEEZE RECORD

Halad 322, 15% salt. Circ. 194 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	2654-74 - Towanda	2000 gal. 15% FE acid per zone. (total
4	2594-2604' - Winfield	6000 gal.) frac perms w/968 bbl.
4	2542-62' - Krider	Boragel & 127,000# 10-20 mesh

TUBING RECORD	Size 2 3/8"	Set At 2517	Packer At	Liner Run ☐ Yes ☒ No
Date of First, Resumed Production, SWD or Inj. 5-20-95	Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf 55	Water Bbls. 5.0	Gas-Oil Ratio 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

POOL _____

API NO. 15-055-20085-0001

WC _____

AFE NO. _____

LEASE: Finnup #2 OWWO Sec. 28 Twp. 21S Rge. 33W Spot C SW NWLOCATION: 3300 FSL, 4620 FEL Sec. 28-21S-33WELEVATION: 2884 GR 2889 KB County Finney State KansasOPERATOR: Petroleum Production Management, Inc. Phone (316) 265-4651CONTRACTOR: Murfin Drilling Co. Phone (316) 267-3241CORRELATION WELL Finnup #1

FORMATION TOPS	SAMPLE TOPS	LOG TOPS	MIRT 10-20-94
B/Stone Corral			SPUD 10-20-94
Herrington		2510 +379 (+2)	SURFACE
Krider		2554 +335 (-12)	
Winfield		2590 +299 (+2)	
Towanda		2649 +240 (NA)	REMARKS Towanda & Fort
Fort Riley		2702 +187 (NA)	Riley not drilled on Finnup
RTD		2750 +139	#1

RECEIVED

WINDS CORPORATION COMMISSION

DATE

REPORT

DEC 22 1994

10-20-94 MIRT.
 12:00 p.m. Begin drilling surface cmt. plug.
 5:00 p.m. Fell thru cmt. Run drill pipe & wash hole dn. to 2750'
 10:00 p.m. RTD 2750'. Conditioning hole to log.

10-21-94 RTD 2750'. MW - 9.3. Viscosity 43. Wtr. loss 11.2 cc.
 Chlorides 41,000. Conditioning hole to log.
 2:00 a.m. Pulled drill pipe to collars @ btm. of surface pipe.
 3:00 a.m. TIH w/drill pipe - no hole problems.
 4:00 a.m. Circ. hole for 2 hrs. - full returns.
 6:00 a.m. POOH w/drill pipe to log.
 8:00 a.m. RU HLS & run DLL-MSFL-GR-caliper from TD 2750' to base of surf. csg. @ 814'.
 10:00 a.m. Ran CNCD-GR-caliper from TD 2750' to 2000'. POOH & lay dn. logging tool.
 11:00 a.m. Logging complete. PU RFT tool & TIH to get press. data. 1st tool would not work. POOH. PU 2nd tool.
 11:30 a.m. On btm. w/2nd tool - running press. tests. Made 14 sets - all zones recorded as tight but feel formations badly damaged. Herrington 142#, Krider 202#, Winfield 105#, Towanda 140#, Fort Riley 166#.
 12:30 p.m. Complete RFT tests & POOH & lay dn. RFT tool. RDMO HLS.
 1:30 p.m. TIH w/drill pipe to condition hole for csg.

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WICHITA, KS

10-21-94

2:30 p.m.

3:30 p.m.

6:30 p.m.

On btm. w/drill pipe.

Circ. 1 hr. & start laying dn. drill pipe.

Start pipe in hole. Install guide shoe on shoe jt. & ran Baker triplex float in collar of 1st jt. Ran 86 jts. 4 1/2" - 9 1/2# tested to 4000# 8 RD csg. in hole. Ran 11 centralizers. Ran 3 cement baskets - 1 @ 2388', 1 @ 2003' & 1 @ 1171'. Set csg. 6' off btm. @ 2744'.

7:50 p.m.

Pipe on btm.

9:15 p.m.

RU Halliburton. Mix & pump 40 bbl. - 3% salt wtr. Pump 500 gal. mud flush - mix 2 sx. gel & mix & pump 1250 sx. HLC w/2% C.C. - 10#gil/sx. Tail in w/250 sx. premium EA-2 cmt. containing 5% calcium seal, .6% Halad - 322 - 15% salt. Pump cmt. in turbulent flow @ 6 BPM. Max. pumping cmt. press. 750#. Had full circulation thruout job. Circ. 194 sx. cmt. to pit. Plug on btm. @ 2744' - float valve. Press. to 1000#. Release press. Float holding ok. Job complete @ 10:43 p.m. Zero point = 7 1/2' ABH. Release rig.

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CONSERVATION DIVISION
WICHITA, KS

PETROLEUM PRODUCTION MANAGEMENT, INC.

WELL REPORT

ORIGINAL

X Completion
 _____ Workover

POOL _____ LEASE # _____

API# 15-055-20085-0001 AFE # _____

LEASE Finnup #2 OWWO Sec. 28 Twp. 21S Rge. 33W Spot C SW SW

ZERO POINT 7 1/2' ABH ELEV. 2884 GR 2889 KB CO. Finney STATE Kansas

OPERATOR Petroleum Production Management, Inc. RTD 2750 LTD 2750 PBDT _____

CONTRACTOR Gressel Well Service CSG. SIZE & 10 3/4" @ 814'
 DEPTH SET 4 1/2" @ 2744' WT. 9 1/2#

NEW OIL WELL _____ Perfs. _____ Zone _____

NEW GAS WELL X Perfs. 2542-62' Zone Krider
 Perfs. 2594-2604' Zone Winfield
 Perfs. 2654-74' Zone Towanda
 B.P. _____

OLD OIL WELL _____ Perfs. _____ Zone _____

OLD GAS WELL _____ Perfs. _____ Zone _____
 B.P. _____

REMARKS: _____

REPORT

11-16-94 MIRU Gressel WS. PU 4 1/2" csg. scraper w/blade bit on btm. & TIH w/86 jts. 2 3/8" EUE tbg. to PBDT 2710'. POOH w/tbg. Layed dn. scraper & bit. RU HLS PU GR-CCL-bond log tool & TIH. Log from 2704-2000' & from 1600-1000'. POOH w/logging tool. Lay dn. logging tool. Swab well dn. to 1550'. PU 3 3/8" csg. gun dressed w/4 SPF - 32 gram jet charge & TIH. Perf as follows:

2654-74'	Towanda	total 80 holes
2594-2604'	Winfield	total 40 holes
2542-62'	Krider	total 80 holes

POOH w/gun. All shots fired. RDMO HLS. SDFN.
 Daily cost - \$7,500

11-17-94 PU Halliburton RBP & RTTS pkr. & TIH on 2 3/8" EUE tbg. Set RBP @ 2704'. Spot 10 bbl. acid & 2 bbl. lease salt wtr. PU & set RTTS @ 2629'. Acidize Towanda perfs w/2000 gal. 15% FE-NE acid w/max. press. 1000# - broke to 390#. Treat zone @ 2.8 BPM @ 400#. Release RTTS & lower tbg. to RBP. PU RBP & raise to 2641' & set. Raise pkr. to 2565' & set. Treat Winfield perfs w/2000 gal. 15% FE-NE acid w/max. press. 800#. Treat zone @ 2.5 BPM @ 450#. Lower tbg. & PU RBP & pull up to 2577' & set. Raise pkr. to 2534' & set. Treat Krider perfs w/2000 gal. 15% FE-NE acid w/max. press. 820#. Treat zone @ 2.6 BPM @ 350#. ISIP - vac. Total load 185 bbl. Job complete @ 11:54 a.m. Lower RTTS & PU RBP. POOH w/tbg. & laid dn. RTTS & RBP. SDFN.

Daily cost - \$10,415

Cum. cost - \$17,915

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ORIGINAL

11-18-94 7:00 a.m. - RU Halliburton & prepare to frac. 9:47 a.m. - frac Towanda, Winfield & Krider perfs dn. 4 1/2" csg. w/968 bbl. Boragel G-3195 fluid system. Pump 15,000 gal. pad @ 40 BPM @ 530#. Pump 3000 gal. w/2 PPG 10-20 sd. @ 40 BPM @ 470#. Pump 2000 gal. w/3 PPG 10-20 sd. @ 40 BPM @ 400#. Pump 2000 gal. w/4 PPG 10-20 sd. @ 40 BPM @ 450#. Pump 3000 gal. w/5 PPG 10-20 sd. @ 40 BPM @ 400#. Pump 4000 gal. w/6 PPG 10-20 sd. @ 41 BPM @ 400#. Pump 4000 gal. w/7 PPG 10-20 sd. @ 43 BPM @ 380#. Pump 5000 gal. w/8 PPG 10-20 sd @ 42 BPM @ 425#. Pump 1754 gal. flush @ 44 BPM @ 600#. ISIP 348#. 5 min. - 160#. 10 min. - 98#. 15 min. - 50#. Total sand pumped 127,000# 10-20 mesh sd. Job complete @ 10:15 a.m. SDFN. Cost - 32,000 Hal., 1000 rig, 1000 wtr., 1000 frac tank, 450 supervision.
Daily cost - \$35,450 Cum. cost - \$53,365

11-21-94 No pressure on well. PU sand pump & TIH. Top of sand @ 2642'. Sand pumped & cleaned out to 2692'. SDFN.
Daily cost - \$1,200 Cum. cost - \$54,565

11-22-94 TIH w/sand pump. Top of sand @ 2677'. Cleaned out to 2712'. Layed sand pump dn. & TIH w/15.80' MA, 1/10' SN & 29 jts. 2 3/8" EUE tbg. Btm. of string @ 2517'. RU swab. TIH. Fluid level @ 2100'. Swab from SN. Swabbed 50 bbls. SDFN.
Daily cost - \$1,650 Cum. cost - \$56,215

11-23-94 85# press. on back side. Commence swabbing @ 8:00 p.m. Fluid level constant @ 3700'. Swab back 75 bbls. Press. 170#. SDFN.
Daily cost - \$1,650 Cum. cost - 57,865

11-24-94 Press. 185#. Not unloading out of tbg.

11-25-94 Press. 185#.

11-26-94 Press. 185#.

11-28-94 Ran swab & swabbed 5 hrs. w/fluid level remaining constant @ 150'. Rec. frac wtr. & blow of gas after each run. Total fluid swabbed from hole est. 100 bbls. SICP 170#. Layed dn. swab. PU 2" X 1 1/2" X 10' M-M BHD pump w/6' gas anchor & 1 - 2' - 5/8" pony rod on top of pump & TIH w/100 5/8" sucker rods, 1 - 10' & 1 - 2' pony rod, 1 1/4" X 16' polish rod w/5' HF liner. Seat pump ok. Clamp off polish rod. RDMO Gressel WS. Cost - 1200 rig, 3250 tbg., 1500 rods, 1000 pump, 450 supervision.
Daily cost - \$7,400 Cum. cost - \$65,265

11-30-94 Install pumping unit. Out of propane.

12-1-94 Filled propane tank. Start pumping unit. 150# SICP. Pumping good stream of wtr. - frac load.

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