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 # 32914
Name: Sunwest Petroleum, Inc.
Address: 17776 Preston Rd. Suite 100
City/State/Zip: Dallas, TX 75252
Purchaser: J-W Gas Gathering, LLC
Operator Contact Person: Mike Shields
Phone: (972) 741-8001
Contractor: Name: L & S Well Service
License: 32450
Wellsite Geologist: Cindy Van Dyke

Designate Type of Completion:
X New Well ____ Re-Entry ____ Workover
____ Oil ____ SWD ____ SIOW ____ Temp. Abd.
X 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. ____

5-6-02 Spud Date or Recompletion Date
5-20-02 Date Reached TD
____ Completion Date or Recompletion Date

API No. 15 125-30078-0000
County: Montgomery
NW-NW-NW Sec. 5 Twp. 34 S. R. 15 X East ☐ West
360 feet from S / (N) (circle one) Line of Section
360 feet from E / (W) (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE (NW) SW
Lease Name: Wheeler-Haddan Well #: 5-1
Field Name: Jefferson-Sycamore
Producing Formation: ____
Elevation: Ground: 868 Kelly Bushing: N/A
Total Depth: 1440 Plug Back Total Depth: ____
Amount of Surface Pipe Set and Cemented at ____ 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 WEH EH 9.4.02
(Data must be collected from the Reserve Pit)
Chloride content ____ ppm Fluid volume ____ bbls
Dewatering method used ____
Location of fluid disposal if hauled offsite:
Operator Name: ____
Lease Name: ____ License No.: ____
Quarter ____ Sec. ____ Twp. ____ S. R. ____ ☐ East ☐ West
County: ____ Docket No.: ____

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: Controller Date: August 28 2002
Subscribed and sworn to before me this 28th day of August
19 2002.
Notary Public: Jennifer L Ashmore
Date Commission Expires: August 3, 2003

JENNIFER L. ASHMORE
MY COMMISSION EXPIRES
August 3, 2003

KCC Office Use ONLY
✓ NO Letter of Confidentiality Attached
If Denied, Yes ☐ Date: ____
✓ Wireline Log Received
✓ Geologist Report Received
____ UIC Distribution

Side Two

Operator Name: Sunwest Petroleum, Inc. Lease Name: Wheeler-Haddan Well #: 5-1

Sec. 5 Twp. 34 S. R. 15 ☒ East ☐ West County: Montgomery

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 (Attach Additional Sheets) ☐ Yes ☐ No

Samples Sent to Geological Survey ☐ Yes ☐ No

Cores Taken ☐ Yes ☐ No

Electric Log Run (Submit Copy) ☒ Yes ☐ No

List All E. Logs Run:

High Resolution Compensated Density Neutron
Bond Log
Dual Induction

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

Name	Top	Datum
Rowe	1266-1269.5	

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	10 1/4	8 5/8	17.0	20	Type I	5	
Production	6 3/4	4 1/2	10.5	1424	Type II	180	300# Gel

ADDITIONAL CEMENTING / SQUEEZE RECORD

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

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 Holes Per Ft.			

TUBING RECORD Size Set At Packer At Liner Run ☐ Yes ☐ No

Date of First, Resumed Production, SWD or Enhr. Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)

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

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)

WHEELER-HADDAN #5-1

NW NW NW
Section 5, T34, R15E
360 ft fnl, 360 ft fwl of section
Montgomery County, KS
Elevation 795 ft.

SPUD DATE: 5/16/02
TD DATE: 5/21/02
CASING: 20 feet of surface pipe
DRILLER: L and S Drilling
GEOLOGIST: Cindy Van Dyke
TD: 1440 ft. OPEN-HOLE LOGGED?: yes – Osage Wireline CORED?: no

FORMATION	TOP	SUB-SEA ELEVATION
Layton Ss.	none	
Wayside Ss.	590 ft.	+ 205
Oswego Ls.	807 ft	- 12
Weir Coal	none	
Bluejacket Coal	none	
Bartlesville Ss.	1134 ft.	- 339
Rowe Coal	1266 ft.	- 471
Riverton Coal	1302 ft.	- 507
Mississippi Ls	1330 ft.	- 536

0 -595	shale & lime, gry to brn
595-645	sand, med gry, f. fn-grnd, well-rounded & well-sorted, v. little cement, wet!, v. clean sand, finer and not as sorted downward, no show
645-698	shale, gry
698-723	lime, med brn, sucrosic to sandy, slight odor, none seen in samples
723-807	shale, gry
807-838	lime, dk gry, cryptocrystalline to sucrosic, slight odor 5-10 ft. in, dk brn, bottom zone very hard – almost glass-like, tr bubbling gas at porosity, very base again porous and contain sm. amt. oil
GAS TEST:	812 ft. – no test
838-852	shale, blk, dirty, no gas
GAS TEST:	850 ft. – no test
852-874	lime, med gry, tight and cryptocrystalline, v. little porosity, no odor
874-878	shale, blk with coal at base (no gas seen in samples)
878-896	lime, med gry to med brn, sucrosic to sandy (5 ft in), good odor, fair bleeding oil , fossils, fair vuggy porosity, tr gas seen, (best zone of Oswego)

GAS TEST: 883 ft. – 1" on ½ " choke = 6 mcf
896-900 shale, blk
900-902 coal, concoidal, no linear fractures, no gas seen
902-928 shale, gry
928-930 coal, sandy, blk, as above but little dirtier
930-939 shale, gry
939-940 coal, concoidal & slightly dirty, no gas seen
940-968 shale, gry
968-970 lime, gry to brn
970-1050 shale, gry to blk
1050-1054 sand, gry, v. fn-grnd, soft & dirty, much mica, no show
1054-1088 shale, gry
GAS TEST: 1090 ft. – no test
1088-1095 lime, sandy like sugar, med to lt gry, fn-grnd, no cement, poor-sorted, sub-angular to rounded, no show
1095-1118 shale, gry
1118-1120 coal, concoidal to chunky & dirty, with sm. amt. bubbling gas
1120-1135 shale, gry
GAS TEST: 1135 ft. – no test
1135-1160 sand, brn & limey at top grading to lt gry, then to brn, fn-grnd, sub-angular, poor-sorted, v. little cement, good porosity & perm., tr bubbling gas, fair oil odor, no oil on pit, very clean & fine at base, like sugar
GAS TEST: 1150 ft. – no test
1160-1196 shale, gry
1196-1198 coal, chunks, v. fractured, no gas seen, small pieces in sample screen
1198-1206 shale, gry
1206-1208 coal, concoidal with cleaving, small pieces, clean, tr bubbling gas
1208-1266 shale, gry
1266-1268 coal, slightly concoidal, more dirty than above, tr pyrite, tr bubbling gas tiny chunks in sample screen (Rowe Coal)
1268-1284 shale, gry
1284-1288 lime, brn, sucrosic to crystalline
1288-1302 shale, gry
GAS TEST: 1289 ft – 2# on ½ inch choke = 47 mcf (from Rowe)
1302-1304 coal, concoidal to lenticular, mod bubbling gas!, most of sample did not float, more gas seen in this sample than from above Rowe coal (Riverton)
GAS TEST: 1304 ft. – 2 ½# on ¾ inch choke = 121 mcf
1304-1330 shale, blk, v. dirty
1330-1440 lime & chert, not as weathered as many upper Miss. Zones, lt gry to tan, very few streaks of porosity, slight show in lenses
1440 TD

CONCLUSIONS

When drilled, Wheeler-Haddan #5-1 tested 47 mcf in the Rowe Coal, then increased to 121 mcf after drilling the Riverton Coal. On-site examination of the samples comparing the 2 coals showed the Riverton contained more gas than the Rowe, confirming the gas tests. Open-hole logs opposed this and showed the Rowe Coal much more developed than the Riverton and the Riverton only fair. Two options are available – either, 1) the electric log did not get a true reading of the Riverton, or 2) most of the gas was coming from the Rowe and just took time to build up. Viewing the samples, I tend to agree with the first statement, as more gas was seen in the Riverton samples. While testing 45 mcf more than Pierson #6-1, electric logs show neither zone as developed as the Rowe in Pierson #6-1.

Probably, I would complete the Rowe first and singularly and test for gas. If production is not significant, I would go back in and complete the Riverton. Knowledge gathered from other wells in the area may be very beneficial in determining the best plan for production on this well.

There were no other zones of interest in the well. Structurally, Wheeler-Haddan #5-1 falls right in line with other wells in the immediate area.

Cindy Van Dyke