

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

COPY

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:
☒ New Well ☐ Re-Entry ☐ Workover
☐ Oil ☐ SWD ☐ SIOW ☐ Temp. Abd.
☒ 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. _____
4-30-02 5-02-02 5-22-02
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 125-30080-0000
County: Montgomery
SW-SW Sec. 5 Twp. 34 S. R. 15 ☒ East ☐ West
1000 feet from S / N (circle one) Line of Section
820 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 #: -5-12
Field Name: Jefferson-Sycamore
Producing Formation: Rowe
Elevation: Ground: 875 Kelly Bushing: N/A
Total Depth: 1415 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at 20 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☒ No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 1362
feet depth to Surface w/ 186 sx cmt.

Drilling Fluid Management Plan 11 BH 9.400
(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, 2002
Notary Public: Jennifer L. Ashmore
Date Commission Expires: August 3, 2003



KCC Office Use ONLY

☒ Letter of Confidentiality Attached
If Denied, Yes ☐ Date: _____
☒ Wireline Log Received
☐ Geologist Report Received
☐ UIC Distribution

Operator Name: Sunwest Petroleum, Inc Lease Name: Wheeler-Haddan Well #: 5-12
 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 ☐ 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:

High Resolution
Compensated
Density
Dual Induction
Bond Log

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

Name Top Datum
 Rowe 1285 4/holes per ft
 Rowe

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	1362	Type I	186	300 #Gel

ADDITIONAL CEMENTING / SQUEEZE RECORD

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	Rowe	Acid - 750 gals. HCL 15%	1285
		260 Bls. KCL WTR	1288.5

TUBING RECORD	Size	Set At	Packer At	Liner Run ☐ Yes ☐ No
Date of First, Resumed Production, SWD or Enh.	Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
		30 MCF	60	

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 #5-12

NE SW SW
Section 5, T34, R115E
1000' fsl, 820' fwl of section
Mongomery County, Ks
Elevation 815'

SPUD DATE: 4/30/02

TD DATE: 5/2/02

CASING: 20' of surface

DRILLER: L & S Drilling - Jim

GEOLOGIST: Cindy Van Dyke

TD: 1415' OPEN-HOLED LOGGED?: yes - Osage Wireline CORED?: no

FORMATION	TOP	SUB-SEA ELEVATION
Layton Ss.	315 ft.	+ 500
Oswego Ls.	828 ft	- 13
Weir Coal	1079 ft	- 264
Bluejacket Coal	1164 ft	- 349
Bartlesville Ss.	none	
Rowe Coal	1286 ft	- 471
Riverton Coal	1318 ft	- 503
Mississippi Ls.	1334 ft.	- 519

0 -300 shale and lime
300-313 lime
313-315 shale
315-339 sand, had drilled thru when realized we had gas show - not saving samples
GAS TEST: 340' - 2.25# on 1" choke = 200 mcf
339-556 shale and lime
556-572 lime, med gry brn, odor @ 560 ft., tr bleeding oil and gas, uneconomic
572-612 shale, gry
612-632 sand, shaley at top, grading to nice, clean, wet? sand, gry, tr pyrite, no show
632-830 shale and lime, gry to brn
GAS TEST: 762' - 4" on 1 1/4" choke = 90 mcf - water from zones below sand reducing gas now present
830-858 lime, med brn gry, fair oil show from vugginess @ 868', fair amount fluores, oil and gas in vugs of samples, no oil on pit
858-863 shale, blk - no coal
863-894 lime, med gry brn to lt brn with small lenses of vuggy porosity, very little show, no oil on pit

GAS TEST: 888' – same as above – 90 mcf
894-900 shale, blk, with fresh pyrite (Mulky)
900-919 lime, med brn gry, good odor, oil in veins and cavities, sucrosic with crystals, best zone in Oswego for oil content and odor, still no oil on pit
GAS TEST: 913' – 3 ¾" on 1 ¼" choke = @75 mcf
919-923 shale, blk
923-924 coal, blk, conchoidal with pyrite, tr bubbling gas seen in dirty zone on coal
924-926 shale, blk
926-927 coal, as above, conchoidal with pyrite
927-947 shale, dk gry, very dirty
GAS TEST: 937' – same as above, coals from above did not contain gas
947-949 lime
949-1079 shale, dk gry
1079-1081 coal, blk, dirty, slight "chunkiness", v. tiny pieces from sample line, no gas seen in samples (Weir Coal)
GAS TEST: 1083' – no increase – new day – 2 ½" on 1 ¼" choke = 63 mcf
1081-1149 shale, gry
1149-1152 ? depth ? sand, med gry, v. fn-grnd with mod cement, no show
1152-1164 shale, gry
1164-1166 coal, more cubic and platey than others, no gas seen in samples, clean
1166-1286 shale with lime streaks, dk gry
GAS TEST: 1189' – 2 ½" on 1 ¼" choke = 63 mcf – no increase
1286-1289 coal, blk, fractures and lenses of slightly more dirty zones, tr bubbling gas, larger pieces than other coals coming out of flow line (Rowe Coal)
1289-1318 shale, gry with dirty lenses of lime
GAS TEST: 1300' – 4 ½" on 1 ¼" choke = 95 mcf – coming from Rowe Coal
1318-1320 coal, blk, very vitrious and conchoidal, excellent sample, fair amount gas bubbling from sample, smaller pieces in sample screen than Rowe (Riverton Coal)
1320-1338 shale, gry
GAS TEST: 1330' – 5 ¼" on 1 ¼" choke = 103 mcf – gained more from either Rowe or Riverton – cannot tell at this point
1338-1350 lime and chert, weathered, grading to unweathered, white to tan to lt gray, show of oil and fluores in top 5-6' of sample, streaming cut, uneconomic at this time, grading downward to hard and less porous
1350-1415 lime, gry to brn, lenses of porosity but nothing of significance
GAS TEST: 1365' – no increase
1415 TD

CONCLUSIONS

Wheeler-Haddan #5-12 encountered economic gas in the Layton Ss. and the Rowe Coal. The hole had an excellent gas show of 200 mcf in the shallow, virgin(?), Layton sand at 315 ft. (Nowhere in the county, or surrounding counties has the Layton Ss produced since the 1900's – 1910's.) This zone is shallow but the gas continued to blow much of the day and the next morning at 1000', the well still tested 60 mcf and was "unloading the hole". This sand should definitely be produced unless a test indicates the BTU's to be too low to sell. It is anticipated the zone may be narrow as no other wells have encountered much sand or gas. It is recommended once the direction (it should trend north-east) and width of the trend are delineated, producing wells be drilled on 40-acre spacing or 1320 ft. apart. Because of the shallow depth, initial drilling could be closer without much expense.

Gas in economic quantities was also found in the 3-foot section of Rowe Coal at 1286 ft., with a 30-mcf increase in gas and another 10 mcf increase upon drilling through the Riverton at 1318 ft. This last increase may be a gradual buildup from the Rowe or it may be from the Riverton – the open hole log shows the Riverton not as thick and not as developed as the Rowe.

As in many of the wells in the area, there was a small show in the Mississippi Ls. There was no Bartlesville sand present. Of note is that when circulating to cement the production casing, a fair amount of oil was put on the pit, I believe from the Oswego Ls. @ 860 ft. as it had several thin lenses of oil-bearing porosity when drilled.

I would recommend completing this well in the Layton Ss. and the Rowe Coal. It would be good to get a BTU test on the Layton, but even if low, mixing it with the Rowe gas could make it sellable and increase the volume of the well significantly. If it appears feasible, future wells in the Layton sand could be open-hole completed very inexpensively.