KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1153523

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 32468
Name: Pioneer Oil Company, Inc.
Address 1: HWY 50 AND AIRPORT RD
Address 2: RR # 4 BOX 142B
City: LAWRENCEVILLE State: IL Zip: 62439 + __ __ __ __
Contact Person: Brandi Stennett
Phone: (618) 943-5314
CONTRACTOR: License # 6426
Name: Express Well Service & Supply Inc
Wellsite Geologist: Rick Popp
Purchaser:

Designate Type of Completion:

☐ New Well ☑ Re-Entry ☐ Workover

☐ Oil ☐ WSW ☑ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:

Operator: HBP/Setco
Well Name: Shaw 33-9D
Original Comp. Date: 06/17/1985 Original Total Depth: 4420

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☑ Conv. to SWD
☐ Conv. to GSW

☐ Plug Back: _____ Plug Back Total Depth
☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

03/06/2013	04/04/2013	09/18/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-179-20818-00-01
Spot Description:
__ - SE - NE - SE Sec. 33 Twp. 8 S. R. 28 ☐ East ☑ West
1650 Feet from ☐ North / ☑ South Line of Section
330 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW

County: Sheridan
Lease Name: Shaw Well #: 33-9D
Field Name: Freda
Producing Formation: n/a
Elevation: Ground: 2681 Kelly Bushing: 2670
Total Depth: 2310 Plug Back Total Depth: 2268
Amount of Surface Pipe Set and Cemented at: 305 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
(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 #:
Quarter ____ Sec. ____ Twp. ____ S. R. ____ ☐ East ☐ West
County: _____ Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

☐ **Letter of Confidentiality Received**
Date:
☐ **Confidential Release Date:**
☐ **Wireline Log Received**
☐ **Geologist Report Received**
☑ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Deanna Garrison **Date:** 09/20/2013

Side Two

[redacted] 1153523

Operator Name: Pioneer Oil Company, Inc. Lease Name: Shaw Well #: 33-9D

Sec. 33 Twp. 8 S. R. 28 ☐ East ☑ West County: Sheridan

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 complete copy of all Electric Wire-line 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
Electric Log Submitted Electronically ☐ Yes ☑ No
(If no, Submit Copy)

List All E. Logs Run:

GRN

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

Name	Top	Datum
Cedar Hills	1892'	2314'

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
Longstring	7.87	5.5	15	2310	QMDC	300	

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
2	2 spf & 218' rat hole	shot	1985'-2050'

TUBING RECORD: Size: 2.375 Set At: 2020.01' Packer At: 1961.71'

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 09/18/2013

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☑ Other *(Explain)* Convert SWD

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

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☑ Other *(Specify)* Convert SWD

PRODUCTION INTERVAL:
1985'-2050'

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

PIONEER OIL COMPANY, INC.
Shaw #33-9D OWWO
1650' FSL & 330' FEL Sec 33-8S-28W
Sheridan Co, Kansas

2675' GL
2670' KB

Completion Report – Drill

12-12-12	7:00 am – MI Dan's Dirt Works, dug out & found surface.
12-13-12	7:00 am – MI Dan's Dirt Works, dug cellar & working pits. Express Well Svc installed cellar box then Henly Welding welded on 8-5/8" slip collar.
03-06-13	MIRU Express Well Svc DD, pump, swivel & drill collars. Install pit liner in working pits & fill w/ fresh water. Morgan Mud brought in short pallet of mud incase mud is needed. Start drilling cement @ surface w/ 7-7/8" button bit & collar. Drilled to 240', circulate hole clean, pulled bit up to 210', SDFN
03-07-13	Break circulation, run bit back down to 240', start drilling. Drilled from 240' to 597', drilling hard cement from 409' to 597'. Circulate hole clean, pulled bit up into surface pipe, SDFN
03-08-13	Break circulation, run bit back down to 597', start drilling. Set up rack & unload csg from Sunrise Supply, moved left over csg from Schamberger #1 & Shaw #1 OWWO to fill out string. Drilled from 597' to 853', 256' made, drilling hard cement all the way. Circulated hole clean, pulled bit up into surface pipe, SDFN
03-09-13	Break circulation, run bit back down to 853', start drilling. Drillled from 853' to 942', 89' made drilling hard cement. This is a break down on drilling time, 0' to 409', fast. 409' to 800', 30' /hr. 800' to 942', 30' /2 hr. Circulate hole clean, pulled drill collars to surface, SDFN & Weekend.
03-11-13	TIH w/ extra drill collars(4 – 4 1/8" & 6 – 3 ½" total) & tbg. Start drilling @ 942', drilled to 1117', 175' made, circulate hole clean, pulled bit up into surface pipe. Had Teeter Oilfield Svc dig small reserve pit to displace into when cement csg. SDFN
03-12-13	Break circulation, run bit back down to 1117', start drilling. Drilled from 1117' to 1263', 146' made, circulated hole clean, pulled bit up into surface pipe, SDFN
03-13-13	Break circulation, run bit back down to 1263', start drilling. Drilled 21'to 1284' in 2 hrs getting cement & shale towards end of 20'. The next 30' to 1316' started out drilling 2 min/ ft for 15' getting shale & cement then last 15' when back todrilling slow, 3 hrs for that 30' to 1316' Drilled to 1330', 14' took 2 hrs getting mostly shale w/ some cement. Circulated hole clean, TOH w/ tbg drill collars & bit. We are outside of hole but I think we are drilling beside it because of the small pieces of cement we are getting. We will TIH w/ tooth bit to drill shale down to bottom of plug @ 1475' & see if we will fall back into to hole. SDFN
03-14-13	TIH w/ 7-7/8" tooth bit, drill collars & tbg to 1315', break circulation, start drilling. Drilled from 1330' to 1417', 87' made, circulate hole clean, pulled bit up into surface pipe, SDFN

Shaw #33-9-D

03-15-13 Break circulation, run bit back down to 1417', start drilling. Drilled from 1417' to 1468', 51' made, drilling @ 10 to 12 min/ft, circulated hole clean, TOH w/ tbg, collars & bit. Bit's teeth were worn. SDFN & Weekend

03-18-13 TIH w/ PDC bit, collars & tbg, Had 30' fill up, circulated down from 1442' to 1468', circulate hole clean, start drilling. Drilled to 1520', mud man checked mud, circulated hole & mix mud to get vis to 40 & wt to 9.1. Drilled ahead drilling to 1541', made 73' in about 3 hrs drilling(didn't start drilling till 12:45 & mixed mud for 2 hrs). Circulate hole clean, pulled bit up in to surface pipe, SDFN

03-19-13 Jet up mud, TIH w/ bit & break circulation. Start drilling from 1541' & drilled to 1564' & slowed up to 10 min to the foot & then stopped drilling. Called Bill's Bit & they said we may have balled bit & told us how to try & clean it up. We tried but it wouldn't clean up, so we TOH w/ bit @ 1569'& it was balled up. Cleaned up bit, TIH w/ bit, collars & tbg, break circulation, went to TD @ 1569', put 2 points on bit @ 85 rpm as per advice Bill gave us. Didn't make any hole, put 4 points on bit @ 95 rpm still wouldn't drill. Put 6 points on bit @ 100 rpm & made 1', keep working bit & made total of 3' in 1 hr then stopped making hole @ 1574. TOH w/ bit & it was balled up again. Made a total of 33' to 1574'. SDFN

03-20-13 TIH w/ JZ tooth bit, collars & tbg, break circulation. Start drilling w/ hard drilling the first 10' then sped up w/ hard stringers down to 1620'. Then good drilling to 1669' & hard drilling to 1676' then good drilling to 1695'. Made total of 122', circulate hole clean, pulled bit up in surface, SDFN

03-21-13 TIH w/ bit, break circulation, start drilling @ 1695'. Drilled from 1695' to 1780'', made 75' made. 1st jt, 1hr, 20 min. 2nd jt, 4 hrs. 3rd jt, 3.5 hrs. Circulate hole clean, pulled bit up into surface pipe, SDFN

03-22-13 TIH w/ bit, break circulation, start drilling @ 1780'. Drilled from 1780' to 1795' w/ drilling slowing up. TOH w/ tooth bit, 1 jet plugged off, TIH w/ PDC bit. Circulated hole clean, start drilling @ 1795', drilled to 1820'(total of 40') & bit balled up in shale stringer 1800' to 1840'. Circulate hole clean, TOH w/ tbg, collars & bit. SDFN

NOTE: When we went in w/ the tooth bit on the 20th , we made 122' w/ good drilling. On that day we were fighting the strainer plugging up on pump w/ gel balls in the pits. Then on the 21st, the first jt went in 1 hr & 20 min, the second jt took 4 hrs. We were fight the strainer again but more times. I think that is when we plugged a jet on the tooth bit. When TOH w/ bit we jetted pits w/out strainer & got the pits cleaned up. We ran pump w/out strainer today & was able to get 650# to 750# w/ a lot more volume(45 to 50 gal/min). The PDC bit has 6 jets which I think that is to many for our pump, when we pulled it, it had 4 jet open & 2 plugged. I think if we were to go in w/ the tooth bit & drill throught the shale down to 1900'(80') we would be good from there down to the anhydrite. With the pump running the way it is now I don't think we'll have problems w/ bits.

03-25-13 Primed mud pump, started pumping but ice in pump, pulled valves, cleaned out mud & ice from pump, got pump running, circulated pits. TIH w/ JZ tooth bit collars & tbg, break circulation & wash pipe on swivel cracked & started spraying mud over everything. Broke swivel off, hooked up header on tbg & circulated hole clean. Pulled bit up into surface pipe, SDFN Will have different swivel in morning.

Shaw #33-9D

03-26-13 Primed mud pump, TIH w/ bit to 1730', tagged fillup(90'). Wash down to 1820', start drilling. Made 17' in 3 hrs & 5' in 1 hr 20 min, made total of 22' to 1842'. Circulate hole clean, TOH w/ tbg, collars & bit. Going to run 6 – 4-7/8" drill collars from Kansas Fishing Tool & leave out the 3 ½" drill collars. SDFN

03-27-13 Primed mud pump, TIH w/ bit, 6 – 4-7/8" collars & tbg. Before circulating, displaced heavy mud from suction pit & dumped 80 bbl fresh water. Start drilling @ 1842', drilled to 1858' & mud started to get heavy in short period of time. Displaced heavy mud from shale pit & dumped 80 bbl fresh water. Start drilling again, drilled to 1870' & mud started getting heavy again. Called mud man, stopped by & said the is a Blaine formation above the Cedar Hills & has calcium & lime which is causing mud to thicken up. At one time our vis was 77 & wt was 10.5. Add 1 sx desco, thinned up mud & continued drilling. Drilled to 1892', made total of 50', circulated hole clean, pulled bit up into surface pipe, SDFN. When mud thickened up we would make very little hole until we got it thinned up. We should be at the bottom of the Blaine formation in another 5'.

03-28-13 Primed pump, TIH w/ bit to 1885', 7' FU. Displaced suction pit & added 80 bbl fresh water to shale pit to thin mud. Break circulation, washed down to 1892' & start drilling. 1st 9' drilled 4.5 min/ft, 10th ft drilled 10 min/ft, next 2' drilled 6 min/ft & next 1' drilled 10 min/ft. Circulated hole clean, TOH w/ tooth bit, TIH w/ different PDC bit(5 rows w/ aggressive cut & 5 jets), had to break circulation & ream some shale stringers the last 210' to 1905', then start drilling. Drilled to 1924', 19' & avg 2.5 min/ft. We only made 32' total today but w/ the PDC we should make good hole tomorrow, circulated hole clean, pulled bit up into surface, SDFN. Mud stayed in good condition when drilling.

03-28-13 TIH w/ bit to 1924', break circulation, start drilling @ 1924'. The 1st jt avg 2.8 min/ft to 1955'. The 2nd jt avg was a little higher but we hit a shale that balled the bit but we got it cleaned up & still avg 3.75 min/ft to 1987'. The 3rd jt avg 2.5 min/ft to 2018' w/ hard streak just above the Cedar Hill. The 4th jt avg 2.2 min/ft to 2049'. The 5th jt avg 2.2 min/ft to 2081'. Made total of 157' today. Circulated hole clean, then when TOH w/ bit, hit tight spot from 1892' up to 1871'(Blaine formation). Circulated & rotated up through it. Pulled bit up intp surface, fill hole w/ mud, SDFN & Weekend

04-01-13 Break circulation, TIH w/ bit, condition hole from 1871' to 2081', then start drilling @ 2081'. Then 1st jt avg 2.2 min/ft to 2112'w/ that jt @ end of Cedar Hill formation. The 2nd jt avg 5.6 min/ft to 2146' w/ hard streak from 2127' to 2132'. Made 10' of 3rd jt to 2156' & pump pressure dropped from 550# down to 275#. Checked all valves which checked good but washing sound in plunger. Made total of 75'. Circulated hole clean, pulled bit up into surface pipe, SDFN. Will have different pump in morning.

04-02-12 RU Golden B pump, break circulation, TIH w/ bit 2156', start drilling. The 1st jt avg 5 min/ft to 2177'. The 2nd jt avg 12 min/ft the first 10' then 5 min/ft the last 22' to 2209'. The 3rd jt avg 5.3 min/ft to 2240'. Made total of 84'. Circulate hole clean, pulled bit up into surface pipe, SDFN

04-03-13 TIH w/ bit to 2230', break circulation, circulate down to 2240' & start drilling. The 1st jt avg 3.7 min/ft to 2272'. The 2nd jt avg 3.7 min/ft to 2304'. Drilled to TD @ 2314' @ 1:30 pm. Circulated hole clean, TOH w/ tbg, collars & bit. TIH to end of surface w/ bit & tbg. SDFN Will TIH w/ bit to TD in morning, CTCH, LD tbg, run csg & cement.

04-04-13 TIH w/ bit to TD @ 2314', CTCH, LD tbg. RU Maximum Torque Svc, Ran w/ 55 jts Sunrise 15.5# 8rd S-55 R-3 LTC csg, tallied 2314.44', set @ 2310', 4' off bottom. Shoe

Shaw #33-9D

jt 42.20', latch down @ 2268'. RU Quality Oilwell Cementing &cemented w/ 300 sx QMDC. Landed plug @ 3:30 pm 4/4/13.w/ 1400# & cement to surface. KCC stateman on location Darrel Dipman to witness. Welded 5 ½" to 8-5/8", install 2" port & 5 ½" slip collar. Jet pits, RDMO DD & equipment..

Pioneer Oil Company, Inc
Shaw #33-9D OWWO
1650' FSL & 330' FEL Sec 33-8S-28W
Sheridan Co., Kansas

2678' GL
2683' KB

Report: Complete as SWD in Cedar Hills

08-14-13 MIRU Express Well Svc DD. RU Perf-Tech, perf Cedar Hills 1985' – 2050'(56') w/ 2 spf & 218' rat hole. Start csg swabbing w/ FL @ 800'. Swabbed steady for sand clean up. SDFN.

08-15-13 Tagged sand in rat hole, 22' FU, 196' of rat hole. Start swabbing heavy sand for clean up. Sand is starting to clean up. SDFN

08-16-13 Tagged sand in rat hole, 1' FU, 195' of rat hole. Start swabbing w/ sand starting to clean up. Swabbed steady w/ very little sand. SDFN & Weekend.

08-19-13 MI sealtite tbg & connections from Sunrise Supply & 5 ½" AD-1 pkr from Baker Oil Tools. TIH w/ tbg as follows:

			Set @
2-3/8" 8rd Fiberglass tailpipe	2jts	58.30'	2020.01'
5 ½"x 2-3/8" AD-1 tension pkr			
Nickel/alloy w/ 50,000 shears	1jt	3.00'	1961.71'
2-3/8" 8rd sealtite tbg	61jts	1958.71'	

RU Hoxie Tanks Svc, pumped treated water via csg, set pkr w/ 16" stretch & 23,000# over on pkr. Pressure up to 300# for MIT, held. Left 280# on csg for KCC stateman Darrel Dipman could check. RDMO DD