Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

HOBBS OCD

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

FEB 19 2016

RECEIVED

5. Lease Serial No.
NMNM16835

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
NEUHAUS 14 FED 04

2. Name of Operator
CHEVRON USA INCORPORATED
Contact: DENISE PINKERTON
E-Mail: LEAKEJD@CHEVRON.COM

9. API Well No.
30-025-36353-00-S1

3a. Address
15 SMITH ROAD
MIDLAND, TX 79705

3b. Phone No. (include area code)
Ph: 432-687-7375
Fx: 432-687-7221

10. Field and Pool, or Exploratory
FEATHERSTONE

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 14 T20S R35E SWNE 1980FNL 1650FEL
32.575005 N Lat, 103.424723 W Lon

11. County or Parish, and State
LEA COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☒ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

THIS WELL HAS RECENTLY BEEN RECOMPLETED IN THE SAME ZONE BY ADDING PERFS TO THE FEATHERSTONE/BONESPRING ZONE.

11/4/2015
MIRU GREEN'S ENERGY EQPT. N/U TREE SAVER TO BOP. R/U CHART TEST EQPT TO TREE SAVER TO CHART CSG TEST.
N/D WH CAP, INSTALL CSG HANGER W/ 2-WAY CHECK AND N/U CLASS II-R2 7-1/16" BOP
R/U WSI CHART TESTER, CHART TEST CLASS II-R2 7-1/16" BOP W/ PIPE OVER BLIND RAMS TO 250L/1000H FOR 15 MINS. GOOD TESTS
REMOVE 2-WAY CHECK, R/D WSI CHART TESTER.
MIRU GREEN'S ENERGY EQPT. N/U TREE SAVER TO BOP. CHART CSG TEST.
TEST CBP/CSG FROM 9700' TO SRUF THROUGH TREE SAVER TO 350L. NO LEAKS PRIOR TO HIGH TEST. 350L

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #328111 verified by the BLM Well Information System
For CHEVRON USA INCORPORATED, sent to the Hobbs
Committed to AFMSS for processing by DEBORAH MCKINNEY on 01/12/2016 (04DG0038S)

Name *(Printed/Typed)* MICHAEL STAFFORD — Title PETROLEUM ENGINEER

Signature (Electronic Submission) — Date 01/08/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED — (BLM Approver Not Specified) Title — Date 02/16/2016

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

MAR 04 2016

Additional data for EC transaction #328111 that would not fit on the form

32. Additional remarks, continued

TESTED GOOD, TEST CSG TO 5000H/30 MINS. GOOD TEST. RDMO GREENS TREE SAVER EQPT. N/U ENVIRO PAN. SIFN
11/5/2016
CSG: 0 PSI. STRAP TBG, P/U AND TIH W/ 4-3/4" MTB, SIX - 3-1/2" DCs ON 2-7/8" L-80 WS TO CBP TOC @ ~9700'.
TIH W/ 4-3/4"" MTB, 6 - 3-1/2"" DCs ON 2-7/8" L-80 WS TO ~9700'.
TAGGED TOC @ 9692' ON 294 JTS 2-7/8" WS. SIFN.
11/6/2015
CSG: 0 PSI. RU POWER SWIVEL, STRIPPER HEAD. EST CIRC W/ 8.6 PPG BRINE @ 2.5 BPM. MILL OUT CMT/CBP FROM 9692' TO ~9740'. RPM: 60, TORQUE: 1500 PSI, WOB: 6 PTS. RD POWER SWIVEL. TIH ON 2-7/8" L-80 WS F/9740' TO PBTD @ 10,180'. TAGGED FILL @ 10135' W/ 307 JTS 2-7/8"" L-80 WS. PRESS W/ACID SPOT AND CLEAN WELL TO PBTD POST FRAC. TOH L/D 4 JTS 2-7/8"" L-80 WS F/10135' T/9995'. RECONFIGURE FLOW LINES FOR ACID SPOT. SIFN.
11/7/2015
SPOT 575 GALS (13.7 BBLS) 10% ACETIC ACID FROM EOT @ 9995' T/9470' OVER PROPOSED PERF ZONE F/9986' T/9593'. PRESS TEST LINES TO 2000 PSI. GOOD TEST.
ESTB CIRC W/ 9 BBLS 8.6 PPG BRINE @ 2.5 BPM. PUMPED 13.7 BBLS 10% ACETIC ACID/WATER @ 2.3 BPM AND 582 PSI. DISPLACED TBG W/ 58 BBLS 8.6 PPG BRINE @ 845 PSI TO EOT, PLACING SPOT F/9995' T/9470'. RDMO PUMP TRUCK.
PRIOR TO START OF TOH, CHECKED TBG PRESSURE @ 0830. 180 PSI ON TBG. LEAVE TBG PRESSURE SHUT IN X 1 HOUR, RECHECK. WELL SHUT IN F/0830 HRS T/0930 HRS W/ 180 PSI TBG PRESSURE.
RECHECKED @ 0930 HRS - TBG PRESSURE FELL 60 POUNDS T/120 PSI. DECIDED TO WAIT TILL 1030 HRS AND RECHECK TBG PRESSURE.
RECHECK @ 1030 HRS - TBG PRESSURE FELL TO 90 PSI. DECISION MADE TO FLOW BACK REMAINING PRESS.

FLOWED BACK ~6 BBLS @ 90 PSI DOWN TO 0 PSI IN 30 MINS. OBSERVED WELL FOR 30 MINS TO VERIFY WELL DEAD.
TOH F/9995' T/~1600' L/D 261 JTS 2-7/8" L-80 WS TO RACKS. LEFT 42 JTS WS IN HOLE AS KILL STRING.
SIFN.
SEE REMAINDER OF PROCEDURE ATTACHED.

Summary Report

Major Rig Work Over (MRWO)
Completion - Reconfigure
Job Start Date: 11/3/2015
Job End Date: 12/8/2015

Well Name	Lease	Field Name	Business Unit
NEUHAUS 14 FEDERAL 004	NEUHAUS `14` FEDERAL	FEATHERSTONE EAST	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,671.00	3,686.00	3,686.00, 11/10/2014		

Report Start Date: 11/3/2015
Com
ROAD RIG/EQPT FROM TALCO 25-35-35 TO NEUHAUS 14 FED 004.
REVIEW JSA AND SPOT IN BLOW DOWN TANK, REVERSE PUMP AND PIT EQPT.
CREW TRAVEL FROM WELL SITE
NO ACTIVITY AT WELL SITE.
Report Start Date: 11/4/2015
Com
NO ACTIVITY AT WELL SITE
JSA REVIEW W/ KEY, SMITH, WSI, GREEN, AND D&L FOR N/D WH, N/U AND TEST BOPE AND N/U TREE SAVER AND TEST CSG.
CREW TRAVEL TO LOCATION
PTSM AND JSA REVIEW WITH KEY, SMITH, FORKLIFT ENTERPRISE, AND WSI FOR R/U PULLING UNIT, FINISH SPOTTING EQUIPMENT, AND PROJECTED OPS
CHECK WELL PRESSURES - CSG: 0 PSI RIG UP WO RIG AND ASSOCIATED EQUIPMENT.
N/D WH CAP, INSTALL CSG HANGER W/ 2-WAY CHECK AND N/U CLASS II-R2 7-1/16" BOP TO WELL HEAD.
R/U WSI CHART TEST EQUPT AND CHART TEST CLASS II-R2 7-1/16" BOP W/ PIPE OVER BLIND RAMS TO 250L/1000H FOR 15 MINS. GOOD TESTS
REMOVE 2-WAY CHECK, R/D WSI CHART TESTER EQPT, AND CLEAR WH AREA.
MIRU GREEN'S ENERGY EQPT. N/U TREE SAVER TO BOP. R/U CHART TEST EQPT TO TREE SAVER TO CHART CSG TEST.
TEST CBP/CSG FROM 9700' TO SRUF THROUGH TREE SAVER TO 350L ****VERIFY NOT LEAKS BEFORE PROCEEDING TO HIGH TEST. 350L TESTED GOOD, TEST CSG TO 5000H/30 MINS. GOOD TEST
RDMO GREENS TREE SAVER EQPT.
N/U ENVIRO PAN AND SECURE SITE CLOSE BLIND RAMS, SIFN
CREW TRAVEL FROM LOCATION
NO ACTIVITY AT WELL SITE
Report Start Date: 11/5/2015
Com
NO ACTIVITY AT WELL SITE
CREW TRAVEL TO LOCATION
PTSM AND JSA REVIEW WITH KEY AND SMITH FOR TIH, MILLING OPS, AND PROJECTED OPS
CHECK WELL PRESSURES - CSG: 0 PSI RIG UP WO RIG WORK FLOOR.
CALIPER/INSPECT ELEVATORS. STRAP TBG, P/U AND TIH W/ 4-3/4" MTB, SIX - 3-1/2" DCs ON 2-7/8" L-80 WS TO CBP TOC @ ~9700'. BHA CONSISTS OF: 1 - 4-3/4" MTB X .45' 1 - 2-7/8" BOX X 2-3/8" BOX (3-3/4" OD X 2" ID) CROSS OVER X 1.5' 1 - DRILL COLLAR (3-1/2" OD X 1-1/2" ID) X 30.41' 1 - DRILL COLLAR (3-1/2" OD X 1-1/2" ID) X 31.39' 1 - DRILL COLLAR (3-1/2" OD X 1-9/16" ID) X 30.19' 1 - DRILL COLLAR (3-7/16" OD X 1-1/2" ID) X 31.69' 1 - DRILL COLLAR (3-7/16" OD X 1-9/16" ID) X 30.78' 1 - DRILL COLLAR (3-7/16" OD X 1-9/16" ID) X 30.09' 1 - 2-3/8" IF PIN X 2-7/8" EUE BOX (3-5/8" OD X 1-9/16" ID) X 1.25' TOTAL LENGTH OF BHA: 187.75'
CREW LUNCH
CONTINUE TIH W/ 4-3/4" MTB, 6 - 3-1/2" DCs ON 2-7/8" L-80 WS TO ~9700'. TAGGED TOC @ 9692' ON 294 JTS 2-7/8" WS.
SWA FOR HIGH WINDS - SI WELL AND CLEAR WORK FLOOR. RIG DRILLS DUE. DISCUSSED RIG DRILLS W/ CREW/REVERSE UNIT OPTR FOR FIRE, MAN DOWN, H2S, EVECUATION, SPILL, BOP, AND HIGH ANGLE RESCUE.
SWA FOR HIGH WINDS, BLOWING 25, GUSTING TO 35 MPH.
CREW TRAVEL FROM LOCATION

Well Name	Lease	Field Name	Business Unit
NEUHAUS 14 FEDERAL 004	NEUHAUS `14` FEDERAL	FEATHERSTONE EAST	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,671.00	3,686.00	3,686.00, 11/10/2014		

Com
NO ACTIVITY AT WELL SITE
Report Start Date: 11/6/2015
Com
NO ACTIVITY AT WELL SITE
CREW TRAVEL TO LOCATION *****NOTE*****CREW ARRIVAL TO LOCATION DELAYED DUE TO KEY ENERGY MANDITORY CREW URINALYSIS TESTING.
PTSM AND JSA REVIEW WITH KEY AND SMITH FOR TIH, MILLING OPS, AND DISCUSSED PROJECTED OPS FOR ACID SPOT.
CHECK WELL PRESSURES - CSG: 0 PSI RIG UP POWER SWIVEL AND STRIPPER HEAD. *****NOTE*****CREW CONDUCTED MINOR MAINTENANCE/LUBE ON POWER TONGS BEFORE MILLING OPS.
EST CIRC W/ 8.6 PPG BRINE @ 2.5 BPM. MILL OUT CMT/CBP FROM 9692' TO ~9740' RPM: 60, TORQUE: 1500 PSI, WOB: 6 PTS.
CREW LUNCH
RIG DOWN POWER SWIVEL.
TIH ON 2-7/8" L-80 WS F/9740' TO PBTD @ 10,180' TAGGED FILL @ 10135' W/ 307 JTS 2-7/8" L-80 WS. CONSULTED W/E. ADVISED TO PRESS W/ ACID SPOT AND CLEAN WELL TO PBTD POST FRAC.
TOH L/D 4 JTS 2-7/8" L-80 WS F/10135' T/9995'.
R/D STRIPPER HEAD AND RECONFIGURE FLOW LINES FOR ACID SPOT.
PRIOR TO ACID SPOT JOB, SWA FOR NO SHOWER TRAILER ON SITE FOR ACID SPOT AND NOT ENOUGH TIME TO GET ONE TO LOCATION BEFORE DARK. SECURED WELL, PUSHED ACID SPOT TO MORNING SO SHOWER TRAILER WILL BE AVAILABLE, AND RELEASED CREW.
CREW TRAVEL FROM LOCATION
NO ACTIVITY AT WELL SITE.
Report Start Date: 11/7/2015
Com
NO ACTIVITY AT WELL SITE
CREW TRAVEL TO LOCATION
PTSM AND JSA REVIEW WITH KEY, SMITH, AND PETROPLEX FOR ACID SPOT AND PROJECTED OPS OF TOH L/D 2-7/8" L-8O WS TO RACKS. CHECK WELL PRESSURES - CSG: 0 PSI TBG: 0 PSI - WELL ON VACUUM.
MIRU PETROPLEX PUMP TRUCK, SHOWER TRAILER, AND TREATER VAN. VERIFIED SHOWER TRAILER FUNCTION PRIOR TO START OF JOB.
SPOT 575 GALS (13.7 BBLS) 10% ACETIC ACID FROM EOT @ 9995' T/9470' OVER PROPOSED PERF ZONE F/9986' T/9593'. PRESS TEST LINES TO 2000 PSI. GOOD TEST. ESTB CIRC W/ 9 BBLS 8.6 PPG BRINE @ 2.5 BPM. PUMPED 13.7 BBLS 10% ACETIC ACID/WATER @ 2.3 BPM AND 582 PSI. DISPLACED TBG W/ 58 BBLS 8.6 PPG BRINE @ 845 PSI TO EOT, PLACING SPOT F/9995' T/9470'.
RDMO PETROPLEX PUMP TRUCK, TREATER VAN, AND SHOWER TRAILER.
*****NOTE*****PRIOR TO START OF TOH, CHECKED TBG PRESSURE @ 0830. 180 PSI ON TBG. CONSULTED W/E, ADVISED TO LEAVE TBG PRESSURE SHUT IN FOR AN HOUR AND RECHECK. WELL SHUT IN F/0830 HRS T/0930 HRS W/ 180 PSI TBG PRESSURE. RECHECKED @ 0930 HRS - TBG PRESSURE FELL 60 POUNDS T/120 PSI. DECIDED TO WAIT TILL 1030 HRS AND RECHECK TBG PRESSURE. RECHECK @ 1030 HRS - TBG PRESSURE FELL TO 90 PSI. DECISION MADE TO FLOW BACK REMAINING PRESS.
FLOWED BACK ~6 BBLS @ 90 PSI DOWN TO 0 PSI IN 30 MINS. OBSERVED WELL FOR 30 MINS TO VERIFY WELL DEAD.
TOH F/9995' T/~1600' L/D 261 JTS 2-7/8" L-80 WS TO RACKS. LEFT 42 JTS WS IN HOLE AS KILL STRING.
SECURE EQPT/RIG TOOLS, CLEAN RIG FLOOR, INSTALL TIW, CLOSE AND LOCK PIPE RAMS.
CREW TRAVEL FROM LOCATION
NO ACTIVITY AT WELL SITE.
Report Start Date: 11/8/2015
Com
NO ACTIVITY AT THE WELL SITE
Report Start Date: 11/9/2015
Com
NO ACTIVITY AT WELL SITE
CREW TRAVEL TO LOCATION

Well Name	Lease	Field Name	Business Unit
NEUHAUS 14 FEDERAL 004	NEUHAUS `14` FEDERAL	FEATHERSTONE EAST	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,671.00	3,686.00	3,686.00, 11/10/2014		

Com
PTSM AND JSA REVIEW WITH KEY AND SMITH FOR TOH L/D 2-7/8" L-8O WS TO RACKS. N/D BOP, N/U AND TEST FRAC VALVE, RDMO WO RIG AND ASSOCIATED EQPT. CHECK WELL PRESSURES - CSG: 0 PSI TBG: 0 PSI - WELL ON VACUUM.
TOH L/D 61 JTS 2-7/8" L-80 WS TO RACKS.
JSA REVIEW W/ KEY, SMITH, D&L, GUARDIAN, AND WSI FOR N/D BOPE, N/U AND TEST FRAC VALVE AND INSTALL NIGHT CAP.
INSTALL HANGER W/ 2-WAY CHECK IN WH AND N/D BOPE.
INSTALL 7-1/16" 5M FRAV VALVE AND CHART TEST EQPT.
TEST FRAC VALVE FLANGE T/250L/500H FOR 5 MINS - GOOD TEST.
REMOVE HANGER W/ 2-WAY CHECK, CLOSE FRAC VALVE AND INSTALL NIGHT CAP.
CREW LUNCH
RDMO WO RIG AND ASSOC EQPT AND MOVE TO CDU-103.
NO ACTIVITY AT WELL SITE
Report Start Date: 11/10/2015
Com
NO OPS ON LOCATION.
TGSM, JSA REVIEW
WELL WAS ON A VACCUM. ARCHER WL MIRU. TEST LUBRICATOR 250/1000 PSI. GOOD TEST. RIH WITH GR/CCL AND FIRST GUNS. (3 1/8" SLICK GUNS W/ 19 GRM CHARG, .5 EHD, 41.17" PEN, 4 SPF 90 DEGREE PHASING.) LOG FROM 10,118' UP TO 8500' TIED BACK TO APOLLO CBL/GR/CCL LOG DATED 9/16/03. PERFORATE 9952' - 86'. 2nd RUN SHOT 9893' - 9948'. 3rd RUN SHOT 9790'- 9820'. 4th RUN SHOT 9593' - 9776'. ALL SHOT FIRED. ARCHER WL RD MO.
NO OPS ON LOCATION.
Report Start Date: 11/11/2015
Com
WAIT ON FRAC
Report Start Date: 11/12/2015
Com
NO ACTIVITY AT WELL SITE
MIRU CUDD AND ARCHER EQ
Report Start Date: 11/13/2015
Com
PRE JOB SAFETY MEETING CHECK ALL PERSONAL FOR COMPLIANCE PRESSURE TEST LINES TO 5952 PSI, SET POP OFFS @ 5100 PSI.

Well Name	Lease	Field Name	Business Unit
NEUHAUS 14 FEDERAL 004	NEUHAUS `14` FEDERAL	FEATHERSTONE EAST	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,671.00	3,686.00	3,686.00, 11/10/2014		

Com
STG 1 FRAC: TOP PERF 9592' BTM PERF 9986' LOAD HOLE W/ 50 BBLS OF SLICK WATER EST RATE BREAKDOWN: 2248 PSI START 20% HCL ACID: 12 BBL, 12 BBL/MIN START 48 BBLS OF 20% HCL ACID W/ 640 BIO BALLS. START 240 BBLS OF SLICK WATER FLUSH SHUT DOWN/SURGE BALLS OFF LET BALLS SETTLE FOR 30 MINS RESUME STAGE START 240 BBLS OF SLICK WATER (PREPAD) @ 41 BBLS/MIN @ 4177 PSI START 141 BBL .50PPG 100 MESH @ 48 BBLS/MIN @ 4226 PSI START 525 BBL PAD BFRAC 15 @ 54 BBLS/MIN @ 3961 PSI START 137 BBL .50PPG 20/40 WHITE @ 66 BBLS/MIN @ 4128 PSI START 370 BBL 1PPG 20/40 WHITE @ 65 BBLS/MIN @ 4016 PSI START 386 BBL 2PPG 20/40 WHITE @ 65 BBLS/MIN @ 3996 PSI START 284 BBL 3PPG 20/40 WHITE @ 65 BBLS/MIN @ 4002 PSI START 145 BBL 4PPG 20/40 WHITE @ 65 BBLS/MIN @ 3957 PSI START 179 BBL 4PPG 20/40 COOLSET @ 65 BBLS/MIN @ 4063 PSI START 222 BBL SLICK WATER FLUSH @ 65 BBLS/MIN @ 4091 PSI SHUT DOWN ISIP: 3,039 PSI, 5 MIN: 2,639 PSI, 10 MIN: 2,533 PSI, 15 MIN: 2,505 PSI MAX WHTP: 4,440 PSI, AVG WHTP: 4,026 PSI MAX RATE 66.4 BBL/MIN, AVG RATE: 61.2 BBL/MIN PROP TOTAL: 117,300 LBS 20/40 COOLSET 13,520 20/40 WHITE 98,780 LBS. 100 MESH 5000 LBS.PLAN TOTAL: 116,564LBS TOTAL BBLS PUMPED: 3,004 BBLS TOTAL FLUID TO RECOVER: 2,900 BBLS TOTAL BBLS ACID: 60 BBLS HAND OVER TO ARCHER WL
R/U ARCHER WL LUBRICATOR
RIH W/ JUNK BASKET AND 4.60" GUAGE RING. POOH. RIH W/ 5-1/2" 10K FLOW-THRU FRAC PLUG AND SET @ 9060'. POOH
RUN 3-3/8" SCALLOPED TAG GUNS (25GM, 0.42 EHD & 48.47" PEN) @ 4 SPF AND 90 DEGREE PHASING. CORRELATED TO APOLLO CBL/GR/CCL LOG DATED 9/16/03. PERF UPPER BONE SPRING FORMATION FROM 9004' TO 8603' PER PROG. PERF INTERVALS ARE INCLUSIVE TO DEPTH. 8623' - 8626' = 3' X 4 = 3 SHTS - RUN # 4 8603' - 8614' = 11' X 4 = 44 SHTS - RUN # 4 8654' - 8657' = 3' X 4 = 12 SHTS - RUN #3 8645' - 8649' = 4' X 4 = 16 SHTS - RUN #3 8633' - 8640' = 7' X 4 = 21 SHTS - RUN #3 RE HEAD CABLE 8762' - 8766' = 4' X 4 = 16 SHTS - RUN #2 8718' - 8725' = 7' X 4 = 21 SHTS - RUN #2 8686' - 8699' = 13' X 4 = 52 SHTS - RUN #2 8997' - 9004' = 7' X 4 = 21 SHTS - RUN #1 8833' - 8842' = 9' X 4 = 36 SHTS - RUN #1 8769' - 8788' = 9' X 4 = 36 SHTS - RUN #1 TOTAL SHTS PLANNED - 287 VISUALLY VERIFIED ALL SHOTS FIRED

Report Start Date: 11/14/2015

Com
POOH WITH LAST PERF GUN. DISCONNECT LUBRICATOR

Well Name	Lease	Field Name	Business Unit
NEUHAUS 14 FEDERAL 004	NEUHAUS `14` FEDERAL	FEATHERSTONE EAST	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,671.00	3,686.00	3,686.00, 11/10/2014		

Com
SAFETY MEETING W/ CUDD TO DISCUSS ACID JOB
ACID FRAC DOWN 5-1/2" CASING AS FOLLOWS: START 40 BBLS TREATED WATER @ 10 BBL/MIN @ 2758 PSI (BREAK @2837 PSI) START 66 BBLS 15% HCL ACID @ 12 BBL/MIN @ 2841 PSI START 30 BBLS XL 15% HCL ACID @ 15 BBL/MIN @ 2457 PSI START 66 BBLS 15% HCL ACID @ 15 BBL/MIN @ 2480 PSI START 30 BBLS XL 15% HCL ACID @ 15 BBL/MIN @ 2451 PSI START 105 BBLS 15% HCL ACID @ 13 BBL/MIN @ 2440 PSI START 210 BBL FLUSH @ 15 BBL/MIN @ 2435 PSI ISIP: 2510 PSI 5 MIN: 2219 PSI 10 MIN: 2028 PSI 15 MIN: 1757 PSI MAX PRESSURE: 3313 PSI AVG PRESSURE: 2543 PSI MAX RATE: 18.1 BBL/MIN AVG RATE: 15.2 BBL/MIN FLUID TO RECOVER: 545 BBLS
RDMO ARCHER WL, CUDD ENERGY SERVICES, GUARDIAN TREE SAVER. INSTALL B-1 FLANGE, NEDDLE VALVE, ANF PRESSURE GUAGE ON WELL HEAD.
NO ACTIVITY AT WELL SITE
Report Start Date: 11/15/2015
Com
NO ACTIVITY AT WELL SITE
Report Start Date: 11/25/2015
Com
ROAD RIG FROM CDU-103 TO NEUHAUS 14 FED #004
JSA REVIEW AND TGSM FOR SPOT IN RIG/EQPT AND REV UNIT EQPT.
CHECK WELL PRESSURE. CSG: 600 PSI. MIRU PULLING UNIT AND REV OPTR EQUPT. SPOT TANKS, REV PIT AND PUMP, R/U FLOW LINES, SPOT IN TBG RACKS, AND MOVE PROD TBG TO RACKS. TAKE 8.6 PPG BRINE DELVS.
BLEED OFF PRESSURE TO BD TANK. OBSERVED WELL FOR 30 MINS, NO PRESSURE. RECOVERED ~50 BBLS FLUID, ~ 75% OIL. FLOWBACK CREW NOT REQUIRED
P/U, ISOLATE, AND SECURE TOOLS AND EQPT. SECURE WELL
CREW TRAVEL FROM LOCATION
NO ACTIVITY AT WELL SITE.
Report Start Date: 11/26/2015
Com
NO ACTIVITY AT WELL SITE
Report Start Date: 11/27/2015
Com
NO ACTIVITY AT WELL SITE
Report Start Date: 11/28/2015
Com
NO ACTIVITY AT WELL SITE
TOOK 100 BBL 8.6 PPG BRINE DELV AND TRANSFERED 80 BBLS 8.6 BRINE FROM PIT TO BULF STORAGE TANK. ****NOTE****PRESSURE CHECK: 500 PSI ON CSG - OBSERVED ON FRAC VALVE GAUGE.
NO ACTIVITY AT WELL SITE
Report Start Date: 11/29/2015
Com
NO ACTIVITY AT WELL SITE
Report Start Date: 11/30/2015
Com
NO ACTIVITY AT WELL SITE.
CREW TRAVEL TO LOCATION
JSA REVIEW/SIGN AND PTSM CHECK WELL PRESSURE: 600 PSI ON CSG.

Well Name	Lease	Field Name	Business Unit
NEUHAUS 14 FEDERAL 004	NEUHAUS `14` FEDERAL	FEATHERSTONE EAST	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,671.00	3,686.00	3,686.00, 11/10/2014		

Com
FLOW BACK WELL TO 50 PSI. PUMPED 10 BBLS 8.6 PPG BRINE TO KILL WELL.. WELL WENT ON A VACUUM. RECOVERED ~16 BBLS FLUID TO BD TANK. *****NOTE***** RIG DRILLS DUE. CONDUCTED/DISCUSSED RIG DRILLS W/ CREW DURING FLOW BACK.
MONITOR WELL PRESSURE FOR 30 MINS. NO PRESSURE RETURN.
JSA REVIEW/SIGN W/ WSI, D&L, KEY, AND SMITH FOR N/D FRAC VALVE, N/U AND TEST BOPE
WSI LANDED HANGER W/ 2-WAY CHECK. IN WH. N/D 10K FRAC VALVE.
N/U BOPE AND ASSOC EQPT.
CHART TEST BOP PIPE AND BLIND RAMS TO 250L FOR 5 MINS/1000H FOR 10 MINS. *****NOTE***** DURING BLIND RAMS HIGH TEST, WSI TEST TRUCK BROKE DOWN W/ VEHICLE OVER TEMP ISSUE. TIED CHART TEST EQPT INTO 1/2" GUAGE NIPPLE ON RIG PUMP FLOW LINE AND CONTINUED CHART TEST OF BOPE. APPROX 30 MNS TO RECONFIGURE LINES AND EQPT. USING RIG PUMP AND WSI CHART TEST EQPT, CHART TEST BOP PIPE AND BLIND RAMS TO 250L FOR 5 MINS/1000H FOR 10 MINS EA. GOOD TEST. R/D WSI CHART TEST EQPT.
CREW LUNCH
R/U ENVIROPAN AND WORK FLOOR.
M/U AND P/U 4-3/4" MTB, XOs, AND 6 DCs (1) 1.26'_2-3/8" IF PIN X 2-7/8" EUE BOX (1) 29.72'_3-1/2" X 1-5/8" DRILL COLLAR (1) 31.11'_3-7/16" X 1-1/2" DRILL COLLAR (1) 29.38'_3-7/16" X 1-5/8" DRILL COLLAR (1) 30.07'_3-7/16" X 1-1/2" DRILL COLLAR (1) 30.52'_3-1/2" X 1-1/2" DRILL COLLAR (1) 31.24'_3-1/2" X 1-1/2" DRILL COLLAR (1) 1.23'_ 2-7/8"' REG BOX 2-3/8' IF BOX (3-5/8"X2") (1) .45_4-3/4" MILL TOOTH BIT TOTAL BHA LENGTH: 184.98'
P/U AND TIH W/ BHA ON 115 JTS 2-7/8" L-80 WS T/~3912'.
P/U, ISOLATE, AND SECURE TOOLS AND EQPT. SECURE WELL
CREW TRAVEL FROM LOCATION
NO ACTIVITY AT WELL SITE.
Report Start Date: 12/1/2015
Com
WELL SI NO WELL ACTIVITY
CREW TRAVEL
CHECK WELL PRESSURE = 150 PSI ON CSG/TBG BLOW DOWN CSG PRESSURE TO 0 PSI PUMP 30 BBLS 8.6 BW DOWN CSG, CSG ON VACVUUM FLOW BACK TRAPPED PRESSURE (GAS & OIL) IN TBG TO REV PIT TO 0 PSI PUMP 10 BBLS 8.6 BW DOWN TBG, TBG ON VACUUM RECOVERD ~ 1 GALLON 90% OIL IN REV PIT
SM JSA REVIEW CHECK & CALIPER ELV FOR CORRECT SIZE AND LOG. COMPLETED RIG OPS WELL CONTROL CHECKLIST
MONITOR WELL, WELL ON VACUUM
CONT TO RIH 4 3/4" MTB, BHA W/ 2 7/8" L80 WS, TAG FLOW THROUGH FRAC PLUG AT 9051'. (274 JTS)
INSTALL STRIPPER HEAD ADJUST RIG FLOOR R/U POWER SWIVEL
LOAD WELL W/80 BBL 8.6# BW AT 3 BPM ESTABLISH REV CIRCULATION AT 450 PSI
DRILL OUT FRAC PLUG F/ 9151' - T/ 9153' WOB: 6 PTS TORQ: 900 RPM: 50 ROP: 1'

Well Name	Lease	Field Name	Business Unit
NEUHAUS 14 FEDERAL 004	NEUHAUS `14` FEDERAL	FEATHERSTONE EAST	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,671.00	3,686.00	3,686.00, 11/10/2014		

Com
LOST MOST OF THE CIRCLUATION DURING PLUG DRILL OUT CONT TO PUMP 8.6 BW WITH HEAVY OIL RETURNS. PUMPED A TOTAL ~400 BBLS W/ ~ 77 BBL HEAVY OIL RETURN. CONSULTED W/ WOE HALL ADVISED TO CONT RIH TO TAG FILL
R/D POWER SWIVLE
CONT TO RIH 4 3/4" MTB, BHA W/ 2 7/8" L80 WS, FROM 9053' TAG FILL AT 10032'
TOH STAND BACK 150 STAND WS F/ 10032 - T/ ~250' (1 STD & BHA)
INSTALL CHECK VALVE 2 JTS ABOVE BHA. RIH 4 3/4" MTB, BHA W/ 2 7/8" L80 WS 20 STD T/~1550. SIFN
P/U, ISOLATE, AND SECURE TOOLS AND EQPT. SECURE WELL
CREW TRAVEL FROM LOCATION
NO ACTIVITY AT WELL SITE.
Report Start Date: 12/2/2015
Com
WELL SI NO WELL ACTIVITY
CREW TRAVEL
SM JSA REVIEW CHECK & CALIPER ELV FOR CORRECT SIZE AND LOG. COMPLETED RIG OPS WELL CONTROL CHECKLIST CHECK WELL PRESSURE = 125 PSI ON CSG/TBG
BLOW DOWN CSG PRESSURE TO 25 PSI PUMP 20 BBLS 8.6 BW DOWN CSG, CSG ON VACVUUM BLOW DOWN TRAPPED PRESSURE (GAS) IN TBG TO REV PIT TO 0 PSI. TBG ON VACUUM.
PJSM, SPOT MI RU AIR FOAM UNIT, MANIFOLD, ASSOC IRONS
CONTINUE TIH ON 2-7/8" L-80 WS F/~1550' TO TAG @ 7585' (228 JTS).
INSTALL STRIPPER HEAD ADJUST RIG FLOOR
R/U WELL-FOAM TO WELL LOAD HOLE 30 GPM 5 GALS SOAP PER HR 1150 CFM BREAK CIRCULATION BY PUMPING 60 BBLS OF 8.6 # BW @ 7585'
RIH W/ 302 JTS OF 2-7/8" L80 WS. TAGGED FILL @ 10032'.
R/U POWER SWIVEL INSTALL CHECK VALVE
CLEAN OUT WELL WITH FOAM AND 4 3/4" MTB W/ 2 7/8" WS F/ 10032' - T/ 10132' (306 JTS) PARAMETERS: 1150 CFM 4.5 GALS OF SOAP PER HR 30 GPM GOOD RETURNS PS SET @ 65 RPM WOB 1 - 2 PTS TORQUE 800-1300 FT/LBS ROP 45 FPH NOTE: BETWEEN 10032' - 10132, ROP WAS STEADY, RECOVERING FRAC SANDS, AT 10132', MTB HIT SOLID OBJECT. MILLED ON OBJECT FOR 45 MIN W/O PERITATION. NOTIFIED WOE HALL WHO CALLED 10132' DEEP ENOUGH. (172' RAT HOLE)
CIRCULATE WELL CLEAN 200 - 350 PSI CIRC PRESSURE ON CSG. TOTAL BBLS PUMPED - 307

Well Name	Lease	Field Name	Business Unit
NEUHAUS 14 FEDERAL 004	NEUHAUS `14` FEDERAL	FEATHERSTONE EAST	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,671.00	3,686.00	3,686.00, 11/10/2014		

Com
L/D POWER SWIVEL POOH AND STAND BACK 48 STD OF 2-/78" L80 WORK STRING ABOVE TOP PERF @ 8566' SIFN
P/U, ISOLATE, AND SECURE TOOLS AND EQPT. SECURE WELL
CREW TRAVEL FROM LOCATION
NO ACTIVITY AT WELL SITE.
Report Start Date: 12/3/2015
Com
WELL SI NO WELL ACTIVITY
CREW TRAVEL
SM JSA REVIEW CHECK & CALIPER ELV FOR CORRECT SIZE AND LOG. COMPLETED RIG OPS WELL CONTROL CHECKLIST CHECK WELL PRESSURE = 450 PSI ON CSG/TBG
BLOW DOWN CSG PRESSURE TO 50 PSI PUMP 30 BBLS 8.6 BW DOWN CSG, CSG ON VACVUUM BLOW DOWN TRAPPED PRESSURE (GAS) IN TBG TO REV PIT TO 0 PSI. TBG ON VACUUM.
TIH, 4 3/4" MTB AND MILLING BHA W/ 2-7/8" L-80 WS F/~8566' TO TAG FILL @ 10132' (306 JTS). NO FILL OVERNIGHT,
POOH STAND BACK 2 7/8" L80 WORK STRING (153 STDS)
LD BHA AND MTB
CREW LUNCH
P/U 5 1/2" ARROW SET 10K PKR
RIH W/ 2 7/8" L80 WS TO 8583'
SET PKR AT 8583' (264 JTS) 17 PTS COMPRESSION
LOAD BACKSIDE W/ 15 BBL 8.6# BW TEST PKR T/500 PSI FOR 5 MIN, TEST GOOD
RU SWAB EQUIPMENT AND INSPECT SWAB LINE
P/U, ISOLATE, AND SECURE TOOLS AND EQPT. SECURE WELL
CREW TRAVEL FROM LOCATION
NO ACTIVITY AT WELL SITE.
Report Start Date: 12/4/2015
Com
WELL SI NO WELL ACTIVITY
CREW TRAVEL
SM JSA REVIEW CHECK & CALIPER ELV FOR CORRECT SIZE AND LOG. COMPLETED RIG OPS WELL CONTROL CHECKLIST CHECK WELL PRESSURE = 0 PSI ON CSG/150 ON TBG
CHECK WELL PRESSURES - TBG: 150 PSI, CSG: 0 PSI. BLEW DOWN TBG PRESSURE (GAS) TO REV PIT TO 0 PSI. PUMPED 15 BBLS 8.6 BW DOWN TBG, TBG WENT ON VACUUM.
UNSET PKR SET @ 8582' AND TIH ADDITIONAL 12 STANDS T/9359' AND RE-SET PKR.
RIG UP SWAB EQUPT TO SWAB WELL.
Swabbing Lower Bone Spring perfs 1st set 3 runs: Run1 - begin fluid lvl - 1400', vol recvrd 5 bbls. Fluid Description (water w/ oil) 5% oil. Run2 - begin fluid lvl - 1450', vol recvrd 5 bbls. Fluid Description (water w/ oil) 3% oil. Run3 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (water w/ oil) 1% oil. Allowed Well to recover - 10 mins. Total bbls recovered - 15

Well Name	Lease	Field Name	Business Unit
NEUHAUS 14 FEDERAL 004	NEUHAUS `14` FEDERAL	FEATHERSTONE EAST	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,671.00	3,686.00	3,686.00, 11/10/2014		

Com
2nd set 3 runs: Run1 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (water w/ oil) 1% oil. Run2 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (water w/ oil) 1% oil. Run3 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (water w/ trace oil). Allowed Well to recover - 5 mins. 3rd set 3 runs: Run1 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (water w/ trace oil). Run2 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (water w/ trace oil). Run3 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (water w/ trace oil). Allowed Well to recover - 10 mins. Total bbls recovered - 30
4tht set 3 runs: Run1 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (water w/ trace oil). Run2 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (water w/ trace oil). Run3 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (water w/ trace oil). Allowed Well to recover - 5 mins. 5th set 3 runs: Run1 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (water w/ trace oil). Run2 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (water w/ trace oil). Run3 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (water w/ trace oil). Allowed Well to recover - 10 mins. Total bbls recovered - 30
6th set 3 runs: Run1 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (water w/ trace oil). Run2 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (water w/ trace oil). Run3 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (water w/ trace oil). Allowed Well to recover - 5 mins. 7th set 3 runs: Run1 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (water w/ trace oil). Run2 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (water w/ trace oil). Run3 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (water w/ trace oil). Allowed Well to recover - 10 mins. Total bbls recovered - 30 Total bbls recovered on Lower Bone Srings: 105 bbls
CREW LUNCH
R/D AND STAND BACK SWAB EQPT
UNSET PKR AND TOH F/9359' STANDING BACK 12 STDS 2-7/8" L-80 WS T/8582' AND RESET PKR.
LOAD BACKSIDE W/ 20 BBLS 8.6 BW AND TEST TO 500 PSI/10 MIN. GOOD TEST.
Now Swabbing Both Upper and Lower Bone Spring perfs 1st set 3 runs: Run1 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (black water trace oil). Run2 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (black water trace oil). Run3 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (black water trace oil). Allowed Well to recover - 5 mins. 2nd set 3 runs: Run1 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (black water trace oil). Run2 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (black water trace oil). Run3 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (black water trace oil). Allowed Well to recover - 10 mins. Total bbls recovered – 30

Well Name	Lease	Field Name	Business Unit
NEUHAUS 14 FEDERAL 004	NEUHAUS `14` FEDERAL	FEATHERSTONE EAST	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,671.00	3,686.00	3,686.00, 11/10/2014		

Com
3rd set 3 runs: Run1 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (black water trace oil). Run2 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (black water trace oil). Run3 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (black water trace oil). Allowed Well to recover - 5 mins. 4th set 3 runs: Run1 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (black water trace oil). Run2 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (black water trace oil). Run3 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (black water trace oil). Allowed Well to recover - 10 mins. Total bbls recovered – 30
5th set 3 runs: Run1 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (black water trace oil). Run2 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (black water trace oil). Run3 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (black water trace oil). Allowed Well to recover - 10 mins. 6th set 3 runs: Run1 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (black water trace oil). Run2 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (black water w/ 1% oil). Run3 - begin fluid lvl - 1500', vol recvrd 5 bbls. Fluid Description (black water w/ 1% oil). Total bbls recovered – 30 Total bbls recovered on Lower Bone Sring Swab: 105 bbls Total bbls recovered on Upper and Lower Bone Spring Swab: 90 Total Load Recovered For Day: 195 bbls
R/D AND STAND BACK SWAB EQPT. P/U AND SECURE TOOLS AND EQPT. SECURE WELL.
CREW TRAVEL FROM LOCATION
NO ACTIVITY AT WELL SITE.
Report Start Date: 12/5/2015
Com
WELL SI NO WELL ACTIVITY
CREW TRAVEL
SM JSA REVIEW CHECK & CALIPER ELV FOR CORRECT SIZE AND LOG. COMPLETED RIG OPS WELL CONTROL CHECKLIST
CHECK WELL PRESSURES - TBG: 250 PSI, CSG: 0 PSI. BLEW DOWN TBG PRESSURE (GAS) TO REV PIT TO 0 PSI. PUMPED 20 BBLS 8.6 BW DOWN TBG, TBG WENT ON VACUUM.
R/D AND L/D SWAB EQPT.
UNSET PKR AND TOH STANDING BACK 2-7/8 L-80 PROD TBG.
JSA REVIEW WITH KEY, SMITH, AND HYDROSTATIC FOR HYDROTEST TBG IN THE HOLE TO 7000 PSI. OPEN PTW FOR HANG/REMOVE SHIV IN DERRICK.
MIRU HYDROSTATIC TESTER EQPT. HANG SHIV
M/U, P/U AND RIH W/ BHA TBG/BHA DETAIL CONSIST OF: KB: 15' 256 - JTS 2-7/8" L-80 TBG - 8311.74' 1 - JT 2-7/8" L-80 TBG SUB - 4' 2 - JTS 2-7/8" L-80 TBG - 65.42' 1 - TAC 2-7/8" X 5-1/2" (8396.16') - 2.65' 49 - JTS 2-7/8" L-80 TBG - 1579.36' 2 - JTS 2-7/8" L-80 TK-99 TBG - 65.28' 1 - 2-7/8" MECH SEAT NIPPLE (10,043.45') - .90' 1 - JT 2-7/8" L-80 TBG SUB - 4' 1 - CAVINS DESANDER - 19.25' 1 - JT 2-7/8" L-80 TBG - 32.73' 1 - CAVINS DUMP VALVE - .80 EOT: 10,101.13'

Summary Report

Major Rig Work Over (MRWO)
Completion - Reconfigure
Job Start Date: 11/3/2015
Job End Date: 12/8/2015

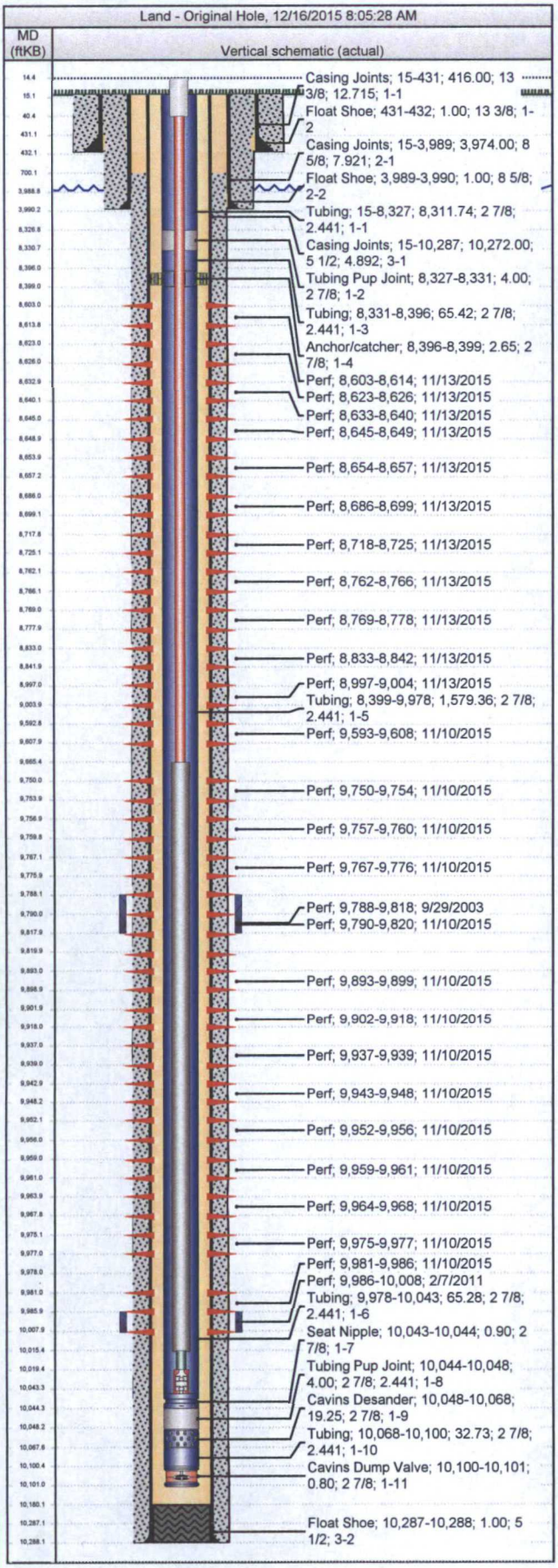
Well Name	Lease	Field Name	Business Unit
NEUHAUS 14 FEDERAL 004	NEUHAUS `14` FEDERAL	FEATHERSTONE EAST	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,671.00	3,686.00	3,686.00, 11/10/2014		

Com
P/U FROM RACKS AND RIH W 3 JTS 2-7/8" L-80 PROD TBG, HYDROTESTING TBG TO 7000 PSI PER PROGRAM. ****NOTE****PAUSED TESTING TO RECONFIGURE SITE DUE TO FORKLIFT AVAILABLE ON LOCATION TO OFF-LOAD RODS. THIS WAS DONE TO SAVE CALLING OUT A SECOND FORKLIFT ON MONDAY TO RECONFIGURE SITE BEFORE RUNNING RODS.
MOVE OUT 12 JTS EXCESS 2-7/8" L-80 TBG FROM RACKS. MOVE OUT PIPE RACKS. SET IN 390 NEW RODS, ROD SUBS, AND ROD BOXES NEAR RIG FLOOR.
CREW LUNCH
FINSIH HYDROTEST 52 STDS (304 JTS) 2-7/8" L-80 PROD TBG IN HOLE TO 7000 PSI.
RDMO HYDROSTATIC TESTING EQPT. R/D TBG TONGS, P/U AND SECURE TOOLS AND SWAB EQPT. SECURE WELL. CLOSE PTW FOR HANG/REMOVE SHIV FROM DERRICK.
CREW TRAVEL FROM LOCATION
NO ACTIVITY AT WELL SITE.
Report Start Date: 12/6/2015
Com
NO ACTIVITY AT WELL SITE.
Report Start Date: 12/7/2015
Com
WELL SI NO WELL ACTIVITY
CREW TRAVEL
SM JSA REVIEW CHECK & CALIPER ROD ELV FOR CORRECT SIZE AND LOG. COMPLETED RIG OPS WELL CONTROL CHECKLIST
CHECK WELL PRESSURES - TBG: 50 PSI, CSG: 50 PSI. BLEW DOWN TBG AND CSG PRESSURE (GAS) TO REV PIT TO 0 PSI. PUMPED 50 BBLS 8.6 BW DOWN CSG AND 20 BBLS DOWN TBG, CSG AND TBG WENT ON VACUUM.
R/D WORK FLOOR
N/D AND RECOVER BOP, ENVIROPAN, AND R/D ENVIROVAC AND ACCUMULATOR.
SET TAC @ 8396' W/ 19 PTS. R/U 2-7/8" B1 WH ADAPTER, ROD BOP, AND PUMPING T W/ HARDWARE.
R/U WORK FLOOR. ROD ELEVATORS, ROD TONGS, AND STRIPPER.
PREP RODS: REMOVE ROD PIN CAPS, CLEAN AND INSPECT PINS, INSTALL ROD BOXES. P/U AND TIH W/ 1.25" X 24' ROD PUMP (25-125-RHBM-24-6) AND 14 - 1.5" GRADE K SINKER BARS ON 385 7/8" WTF-HD RODS
CREW LUNCH
FINISH TIH W 7/8" WTR-HD SUCKER RODS PUMP AND ROD STRING DETAILS: 1 - 1.25 X 24' ROD PUMP (25-125-RHBM-24-6) - 24' 1 - 7/8" X 2' 7/8" HD GUIDED ROD SUB W/ FH-T BOX - 4' 14 - 1.5" GRD K K-BARS W/ SH-T BOXES - 350' 385 - 7/8" HD RODS W/ FH-T BOXES - 9675' 1 - 1.5" X 26' SM POLISH ROD - 26'
RIG DOWN WORK FLOOR AND ROD TOOLS
JSA REVIEW/SIGN W/ NOLAN BRUNSON, KEY, AND SMITH FOR ROLL WEIGHTS TO HANG HORSE HEAD.
NOLAN BRUNSON ROLLED WEIGHTS TO HANG HORSE HEAD TO ALLOW HANG HORSE HEAD AND BRIDAL IN A.M.
P/U AND SECURE TOOLS AND EQPT. SECURE WELL.
CREW TRAVEL FROM LOCATION
NO ACTIVITY AT WELL SITE.
Report Start Date: 12/8/2015
Com
WELL SI NO WELL ACTIVITY
CREW TRAVEL
SM JSA REVIEW CHECK & CALIPER ROD ELV FOR CORRECT SIZE AND LOG. COMPLETED RIG OPS WELL CONTROL CHECKLIST
CHECK WELL PRESSURES - TBG: 0 PSI, CSG: 50 PSI. BLEW DOWN CSG PRESSURE TO REV PIT TO 0 PSI.
HANG ON HORSE HEAD
LOAD TBG W/ 10 BBLS OF 8.6 PPG BW.PRESSURE TBG UP TO 500 PSI FOR.5 MINS. BLED DOWN TO 100 PSI. STROKE PUMP W/ PU 9 STROKES TO 550 PSI. HELD FOR 5 MINS. PUMPER VERIFIED TEST. (WILLIAM RABB)
R/D PULLING UNIT AND REV EQ. MOVE TO F.B. DAVIS #8 ***FINAL REPORT***

Wellbore Schematic

Well Name	Lease	Field Name	Business Unit
NEUHAUS 14 FEDERAL 004	NEUHAUS `14` FEDERAL	FEATHERSTONE EAST	Mid-Continent



Job Details

Job Category	Start Date	Rig/Unit End Date
Major Rig Work Over (MRWO)	11/3/2015	11/9/2015
Major Rig Work Over (MRWO)	11/10/2015	11/13/2015
Major Rig Work Over (MRWO)	11/13/2015	11/14/2015
Major Rig Work Over (MRWO)	11/14/2015	11/16/2015
Major Rig Work Over (MRWO)	11/25/2015	12/8/2015

Casing Strings

Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Set Depth (MD) (ftKB)
Surface	13 3/8	48.00	H-40	ST&C	432
Intermediate	8 5/8	32.00	J-55	ST&C	3,990
Production	5 1/2	17.00	N-80	LT&C	10,288

Tubing Strings

Tubing - Production set at 10,101.1ftKB on 12/5/2015 11:00

Tubing Description	Run Date	String Length (ft)	Set Depth (MD) (ftKB)
Tubing - Production	12/5/2015	10,086.13	10,101.1

Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Btm (ftKB)
Tubing	256	2 7/8	6.50	L-80	8,311.74	8,326.7
Tubing Pup Joint	1	2 7/8			4.00	8,330.7
Tubing	2	2 7/8	6.50	L-80	65.42	8,396.2
Anchor/catcher	1	2 7/8			2.65	8,398.8
Tubing	49	2 7/8	6.50	L-80	1,579.36	9,978.2
Tubing	2	2 7/8	6.50	TK-99 L-80	65.28	10,043.5
Seat Nipple	1	2 7/8			0.90	10,044.4
Tubing Pup Joint	1	2 7/8	6.50	L-80	4.00	10,048.4
Cavins Desander	1	2 7/8			19.25	10,067.6
Tubing	1	2 7/8	6.50	L-80	32.73	10,100.3
Cavins Dump Valve	1	2 7/8			0.80	10,101.1

Rod Strings

Rod - Steel on 12/7/2015 15:30

Rod Description	Run Date	String Length (ft)	Set Depth (ftKB)
Rod - Steel	12/7/2015	10,029.00	10,043.5

Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Btm (ftKB)
Polished Rod	1	1 1/2			26.00	40.5
Sucker Rod	385	7/8	2.22	K	9,625.00	9,665.5
Sinker Bar	14	1 1/2	6.01		350.00	10,015.5
Pony Rod	1	7/8	2.22	K	4.00	10,019.5
Rod Pump	1	1 1/4			24.00	10,043.5

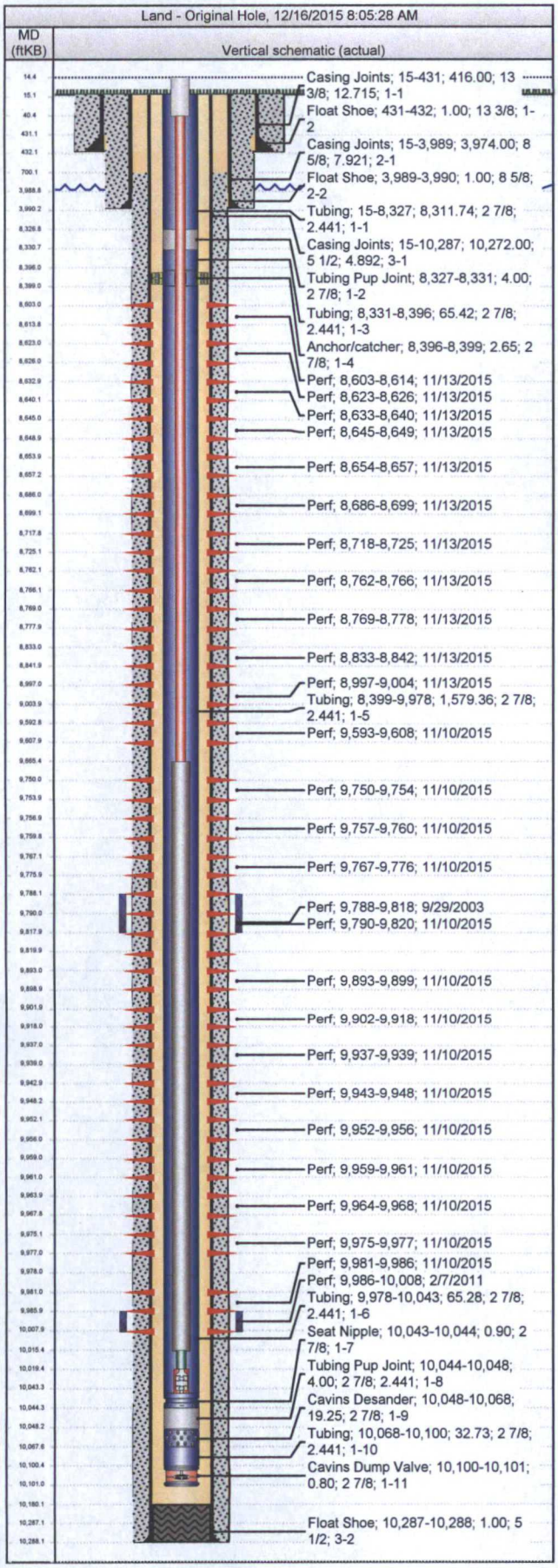
Perforations

Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Zone & Completion
11/13/2015	8,603.0	8,614.0		44	Bone Spring, Original Hole
11/13/2015	8,623.0	8,626.0		12	Bone Spring, Original Hole
11/13/2015	8,633.0	8,640.0		21	Bone Spring, Original Hole
11/13/2015	8,645.0	8,649.0		16	Bone Spring, Original Hole
11/13/2015	8,654.0	8,657.0		12	Bone Spring, Original Hole
11/13/2015	8,686.0	8,699.0		52	Bone Spring, Original Hole
11/13/2015	8,718.0	8,725.0		21	Bone Spring, Original Hole
11/13/2015	8,762.0	8,766.0		16	Bone Spring, Original Hole
11/13/2015	8,769.0	8,778.0		36	Bone Spring, Original Hole
11/13/2015	8,833.0	8,842.0		36	Bone Spring, Original Hole
11/13/2015	8,997.0	9,004.0		21	Bone Spring, Original Hole
11/10/2015	9,593.0	9,608.0		20	Bone Spring, Original Hole
11/10/2015	9,750.0	9,754.0		20	Bone Spring, Original Hole
11/10/2015	9,757.0	9,760.0		20	Bone Spring, Original Hole
11/10/2015	9,767.0	9,776.0		20	Bone Spring, Original Hole
9/29/2003	9,788.0	9,818.0	4.0	121	
11/10/2015	9,790.0	9,820.0		20	Bone Spring, Original Hole

Report Printed: 12/16/2015

Wellbore Schematic

Well Name	Lease	Field Name	Business Unit
NEUHAUS 14 FEDERAL 004	NEUHAUS `14` FEDERAL	FEATHERSTONE EAST	Mid-Continent



Perforations

Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Zone & Completion
11/10/2015	9,893.0	9,899.0		20	Bone Spring, Original Hole
11/10/2015	9,902.0	9,918.0		20	Bone Spring, Original Hole
11/10/2015	9,937.0	9,939.0		20	Bone Spring, Original Hole
11/10/2015	9,943.0	9,948.0		20	Bone Spring, Original Hole
11/10/2015	9,952.0	9,956.0		20	Bone Spring, Original Hole
11/10/2015	9,959.0	9,961.0		20	Bone Spring, Original Hole
11/10/2015	9,964.0	9,968.0		20	Bone Spring, Original Hole
11/10/2015	9,975.0	9,977.0		20	Bone Spring, Original Hole
11/10/2015	9,981.0	9,986.0		20	Bone Spring, Original Hole
2/7/2011	9,986.0	10,008.0	4.0	88	Bone Spring, Original Hole

Other Strings

Run Date	Pull Date	Set Depth (ftKB)	Com

Other In Hole

Des	Top (ftKB)	Btm (ftKB)	Run Date	Pull Date	Com
Cemented Bridge Plug	9,738.0	9,742.0	9/2/2009	11/6/2015	

Report Printed: 12/16/2015

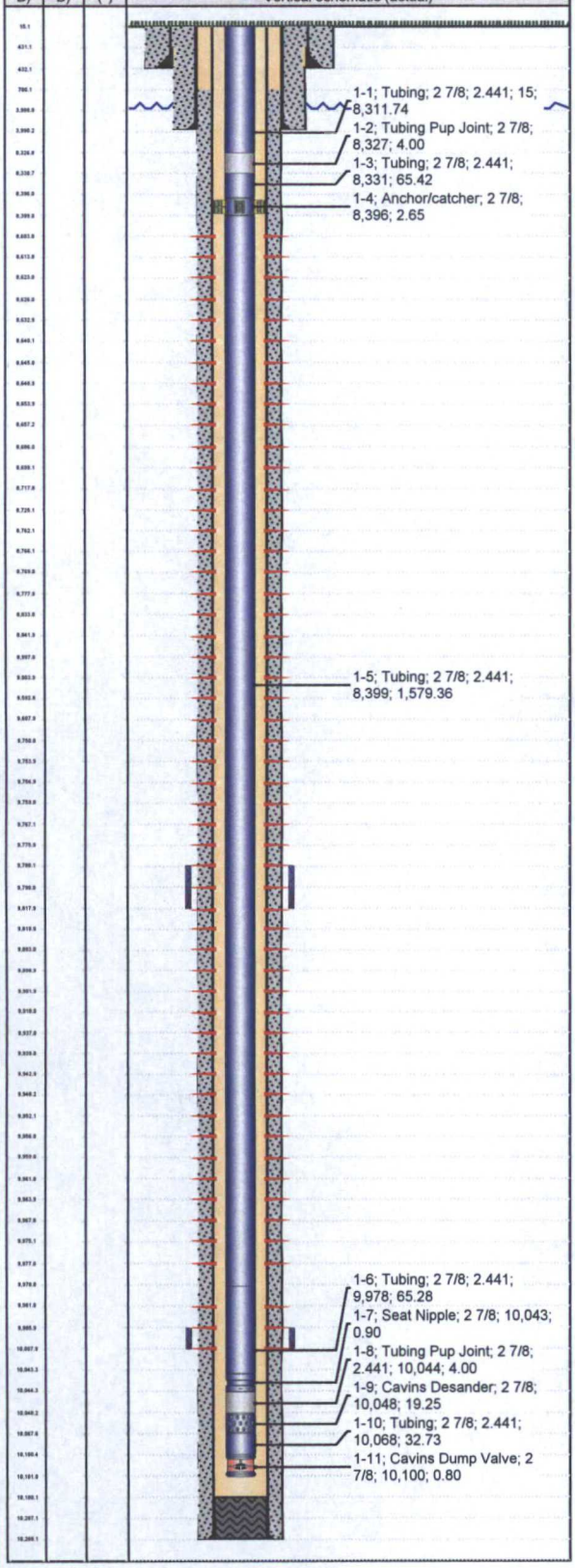
Tubing Summary

Well Name	Lease	Field Name	Business Unit
NEUHAUS 14 FEDERAL 004	NEUHAUS `14` FEDERAL	FEATHERSTONE EAST	Mid-Continent

Ground Elevation (ft)	Original RKB Elevation (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,671.00	3,686.00	3,686.00, 11/10/2014		

Current KB to Ground (ft)	Current KB to Mud Line (ft)	Current KB to Csg Flange (ft)	Current KB to Tubing Head (ft)
15.00			

Land - Original Hole, 12/5/2015 11:00:00 AM



Tubing Strings

Tubing Description	Planned Run?	Set Depth (MD) (ftKB)	Set Depth (TVD) (ftKB)
Tubing - Production	N	10,101.1	

Run Date	Run Job	Pull Date	Pull Job
12/5/2015	Complete and Suspend, 9/21/2003 00:00		Completion - Reconfigure, 11/3/2015 14:00

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
256	Tubing	2 7/8	2.441	6.50	L-80		8,311.74	15.0	8,326.7
1	Tubing Pup Joint	2 7/8					4.00	8,326.7	8,330.7
2	Tubing	2 7/8	2.441	6.50	L-80		65.42	8,330.7	8,396.2
1	Anchor/catcher	2 7/8					2.65	8,396.2	8,398.8
49	Tubing	2 7/8	2.441	6.50	L-80		1,579.36	8,398.8	9,978.2
2	Tubing	2 7/8	2.441	6.50	TK-99 L-80		65.28	9,978.2	10,043.5
1	Seat Nipple	2 7/8					0.90	10,043.5	10,044.4
1	Tubing Pup Joint	2 7/8	2.441	6.50	L-80		4.00	10,044.4	10,048.4
1	Cavins Desander	2 7/8					19.25	10,048.4	10,067.6
1	Tubing	2 7/8	2.441	6.50	L-80		32.73	10,067.6	10,100.3
1	Cavins Dump Valve	2 7/8					0.80	10,100.3	10,101.1

Rod Strings

Rod Description	Planned Run?	Set Depth (ftKB)	Set Depth (TVD) (ftKB)
Rod - Fiberglass	N	9,859.0	

Run Date	Run Job	Pull Date	Pull Job
10/6/2003	Complete and Suspend, 9/21/2003 00:00	3/11/2009	Pump Repair, 3/11/2009 00:00

Rod Components

Jts	Item Des	OD (in)	Grade	Model	Len (ft)	Top (ftKB)	Btm (ftKB)
1	Polished Rod	1 1/2	D		26.00	36.0	62.0
2	Sucker Rod: Friberglass	1 1/4	D		14.00	62.0	76.0
144	Sucker Rod: Friberglass	1 1/4	D		5,400.00	76.0	5,476.0
156	Sucker Rod	1	D	78	3,900.00	5,476.0	9,376.0
18	Sinker Bar	1 1/2	D		450.00	9,376.0	9,826.0
1	Shear Coupling	1	D		1.00	9,826.0	9,827.0
1	Rod Sub	1	D		2.00	9,827.0	9,829.0
1	Rod Pump	1 1/2	D		30.00	9,829.0	9,859.0

Rod Description	Planned Run?	Set Depth (ftKB)	Set Depth (TVD) (ftKB)
Rod - Fiberglass	N	9,859.0	

Run Date	Run Job	Pull Date	Pull Job
3/12/2009	Pump Repair, 3/11/2009 00:00	9/2/2009	Abandon Well - Temporary, 9/2/2009 00:00

Rod Components

Jts	Item Des	OD (in)	Grade	Model	Len (ft)	Top (ftKB)	Btm (ftKB)
1	Polished Rod	1 1/2	D		26.00	-1.5	24.5
2	Sucker Rod: Friberglass	1 1/4	D		14.00	24.5	38.5
144	Sucker Rod: Friberglass	1 1/4	D		5,437.50	38.5	5,476.0

Report Printed: 12/16/2015

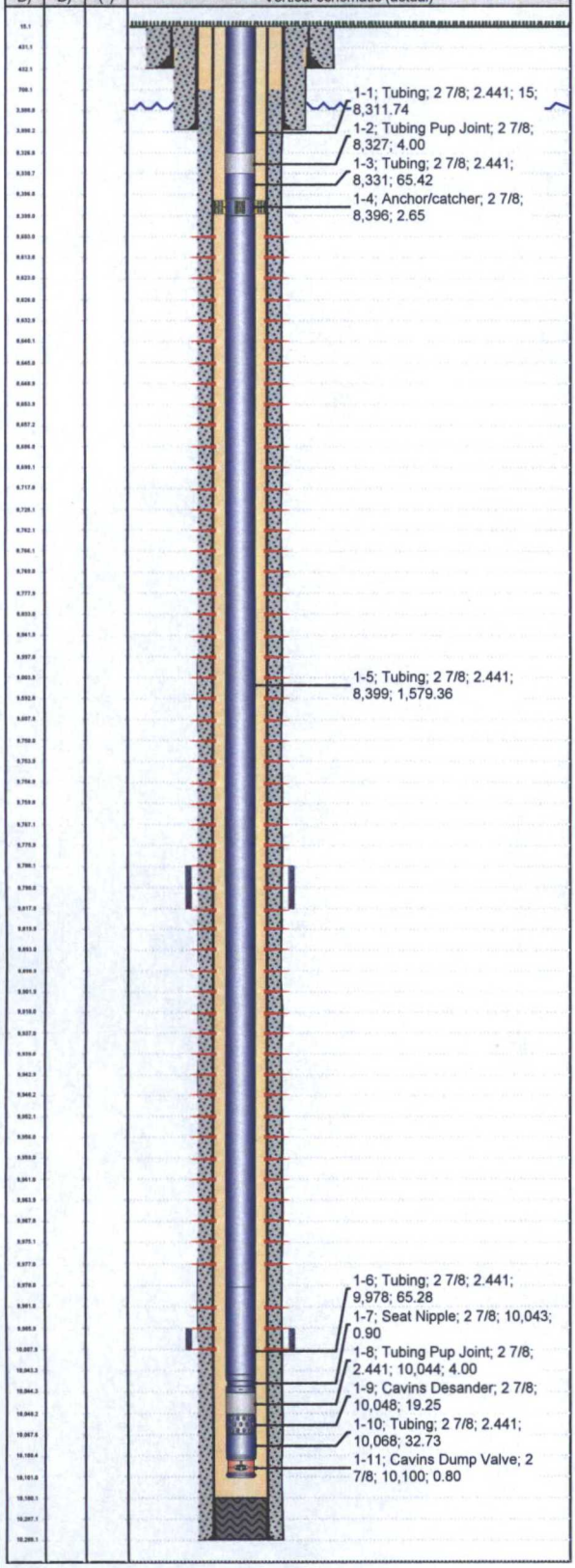
Tubing Summary

Well Name	Lease	Field Name	Business Unit
NEUHAUS 14 FEDERAL 004	NEUHAUS `14` FEDERAL	FEATHERSTONE EAST	Mid-Continent

Ground Elevation (ft)	Original RKB Elevation (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,671.00	3,686.00	3,686.00, 11/10/2014		

Current KB to Ground (ft)	Current KB to Mud Line (ft)	Current KB to Csg Flange (ft)	Current KB to Tubing Head (ft)
15.00			

Land - Original Hole, 12/5/2015 11:00:00 AM



Rod Components

Jts	Item Des	OD (in)	Grade	Model	Len (ft)	Top (ftKB)	Btm (ftKB)
156	Sucker Rod	1	D	78	3,900.00	5,476.0	9,376.0
18	Sinker Bar	1 1/2	D		450.00	9,376.0	9,826.0
1	Shear Coupling	1	D		1.00	9,826.0	9,827.0
1	Rod Sub	1	D		2.00	9,827.0	9,829.0
1	Rod Pump	1 1/2	D		30.00	9,829.0	9,859.0

Rod Description	Planned Run?	Set Depth (ftKB)	Set Depth (TVD) (ftKB)
Rod - Steel	N	10,043.5	

Run Date	Run Job	Pull Date	Pull Job
12/7/2015	Completion - Reconfigure, 11/3/2015 14:00		

Rod Components

Jts	Item Des	OD (in)	Grade	Model	Len (ft)	Top (ftKB)	Btm (ftKB)
1	Polished Rod	1 1/2		Alloy Steel	26.00	14.5	40.5
385	Sucker Rod	7/8	K	Grade 40	9,625.00	40.5	9,665.5
14	Sinker Bar	1 1/2			350.00	9,665.5	10,015.5
1	Pony Rod	7/8	K	Grade 40	4.00	10,015.5	10,019.5
1	Rod Pump	1 1/4			24.00	10,019.5	10,043.5

Report Printed: 12/16/2015