NMOCD
Hobbs

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

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

HOBBS OCD

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

MAR 14 2016

RECEIVED

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

ACCEPTED FOR RECORD

Approved By /S/ DAVID R. GLASS — Title — Date

FEB 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.

DAVID R. GLASS
PETROLEUM ENGINEER

Office

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 14 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.

NEUHAUS 47 FEDERAL 4 **API** **30-025-36353**

11/9/2015

TOH L/D 61 JTS 2-7/8" L-80 WS TO RACKS. INSTALL HANGER W/ 2-WAY CHECK IN WH, N/D BOPE.
INSTALL 7-1/16" 5M FRAV VALVE - CHART TESTER. 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. SWI. RDMO WORKOVER RIG

11/10/2015

WELL WAS ON A VACUUM. 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.

11/13/2015

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 Wireline
RIH W/ JUNK BASKET AND 4.60" GUAGE RING. POOH. RIH W/ 5-1/2" 10K FLOW-THRU FRAC PLUG AND SET @ 9060'. 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.

11/14/2015

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 WIRELINE, CUDD.

11/25/2015

MIRU WORKOVER RIG

CSG: 600 PSI. TAKE 8.6 PPG BRINE DELVS.

BLEED OFF PRESSURE TO BD TANK. OBSERVED WELL X 30 MINS, NO PRESSURE. RECOVERED ~50 BBLS FLUID, ~ 75% OIL. FLOWBACK CREW NOT REQUIRED. SWI.

11/28/2015

TOOK 100 BBL 8.6 PPG BRINE DELV AND TRANSFERRED 80 BBLS 8.6 BRINE TO BULK STORAGE TANK.

PRESSURE CHECK: 500 PSI ON CSG - OBSERVED ON FRAC VALVE GAUGE.

11/30/2015

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.

MONITOR WELL PRESSURE FOR 30 MINS. NO PRESSURE RETURN.

WSI LANDED HANGER W/ 2-WAY CHECK. IN WH. N/D 10K FRAC VALVE. N/U BOPE.

CHART TEST BOP PIPE AND BLIND RAMS TO 250L FOR 5 MINS/1000H FOR 10 MINS. DURING BLIND RAMS HIGH TEST, WSI TEST TRUCK BROKE DOWN TIED CHART TEST EQPT INTO 1/2" GUAGE NIPPLE ON RIG PUMP FLOW LINE AND CONTINUED CHART TEST OF BOPE. 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.

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'. SIFN

12/1/2015

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 VACUUM . 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 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 R/U POWER SWIVEL. LOAD WELL W/80 BBL 8.6# BW AT 3 BPM. EST REV CIRCULATION AT 450 PSI.

DRILL OUT FRAC PLUG F/ 9151' - T/ 9153' WOB: 6 PTS TORQ: 900 RPM: 50 ROP: 1'.

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 SWIVEL. 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.

12/2/2015

BLOW DOWN CSG PRESSURE TO 25 PSI, PUMP 20 BBLS 8.6 BW DOWN CSG, CSG ON VACUUM BLOW DOWN TRAPPED PRESSURE (GAS) IN TBG TO REV PIT TO 0 PSI.

MIRU AIR FOAM UNIT. CONTINUE TIH ON 2-7/8" L-80 WS F/~1550' TO TAG @ 7585' (228 JTS).

INSTALL STRIPPER HEAD.

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.

L/D POWER SWIVEL POOH AND STAND BACK 48 STD OF 2-/78" L80 WORK STRING ABOVE TOP PERF @ 8566' SIFN

12/3/2015

BLOW DOWN CSG PRESSURE TO 50 PSI PUMP 30 BBLS 8.6 BW DOWN CSG, CSG ON VACUUM BLOW DOWN TRAPPED PRESSURE (GAS) IN TBG TO REV PIT TO 0 PSI.

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. 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. SIFN

12/4/2015

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, ON VACUUM.
UNSET PKR SET @ 8582' AND TIH ADDITIONAL 12 STANDS T/9359' AND RE-SET PKR. RIG UP 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.

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

4th 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

R/D 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

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 SWAB EQPT. SIFN

12/5/2015

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. UNSET PKR AND TOH STANDING BACK 2-7/8 L-80 PROD TBG.

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'

RIH W 3 JTS 2-7/8" L-80 PROD TBG, HYDROTESTING TBG TO 7000 PSI. HYDROTEST 52 STDS (304 JTS) 2-7/8" L-80 PROD TBG IN HOLE TO 7000 PSI.

SIFN

12/7/2015

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. 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.

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.

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'

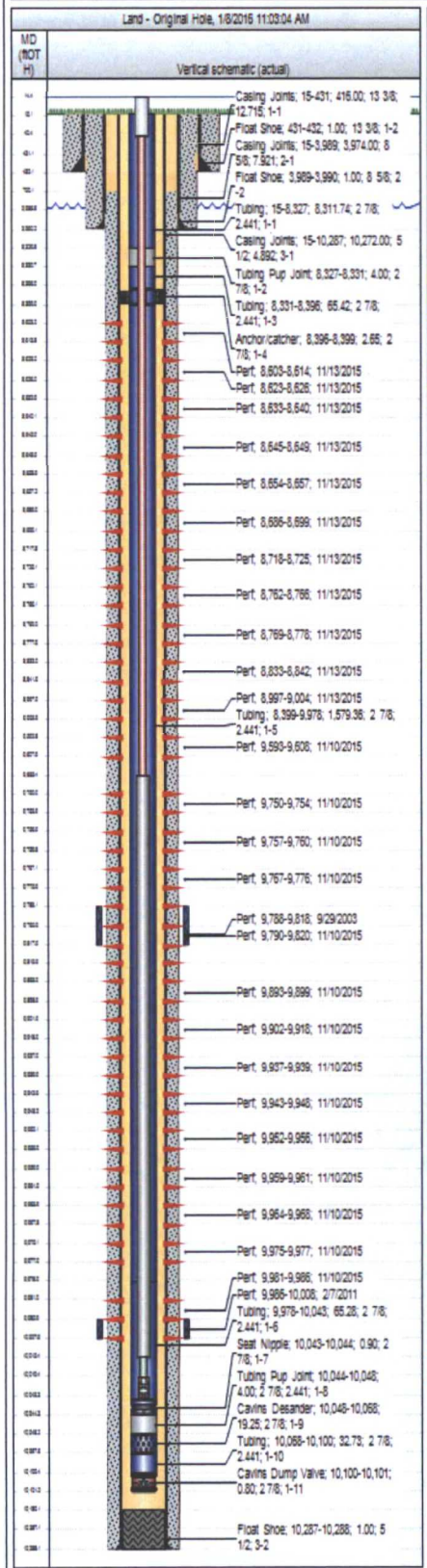
12/8/2015

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). RDMO.

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	Release 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) (ftOTH)
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 10,101.1ftOTH on 12/5/2015 11:00

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

Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Btm (ftOTH)
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	8,396.8
Tubing	49	2 7/8	6.50	L-80	1,579.36	9,976.2
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 (ftOTH)
Rod - Steel	12/7/2015	10,029.00	10,043.5

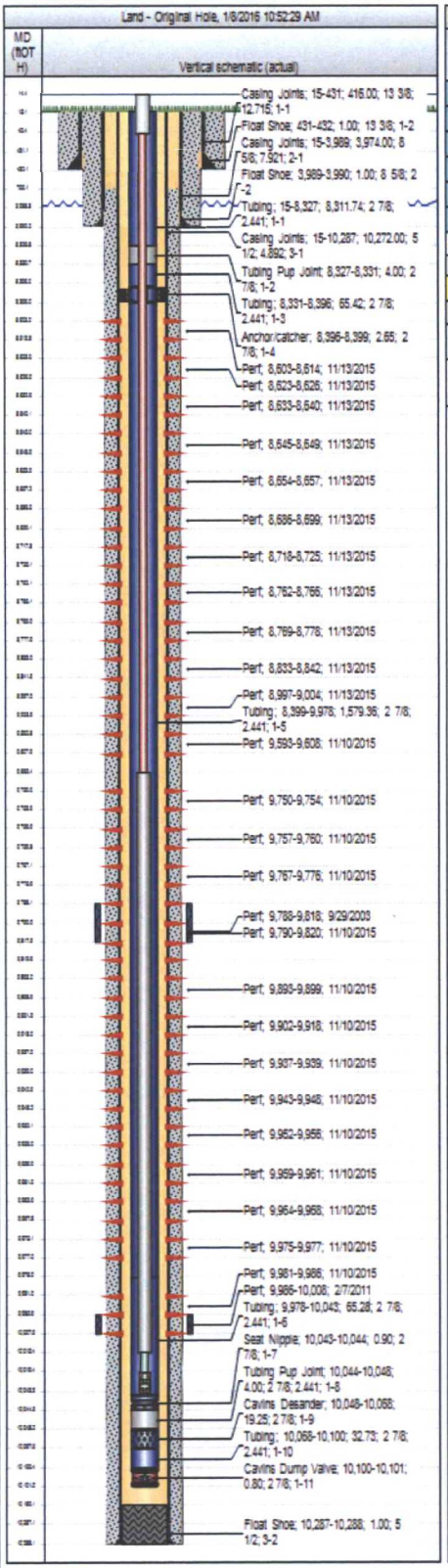
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Btm (ftOTH)
Polished Rod	1	1 1/2			26.00	40.5
Sucker Rod	385	7/8	2.22	K	9,625.00	9,665.5
Sinker Bar	14	1 1/2	6.01		350.00	10,015.5
Pony Rod	1	7/8	2.22	K	4.00	10,019.5
Rod Pump	1	1 1/4			24.00	10,043.5

Perforations

Date	Top (ftOTH)	Btm (ftOTH)	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
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

Wellbore Schematic

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



Perforations

Date	Top (ftOTH)	Btm (ftOTH)	Shot Dens (shots/ft)	Entered Shot Total	Zone & Completion
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 (ftOTH)	Com

Other In Hole

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