Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD
Hobbs

HOBBS OCD
OCT 24 2016
RECEIVED

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.
NMNM118722

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.
SD WE 14 FED P7 4H ✓

2. Name of Operator
CHEVRON USA INC /
Contact: DENISE PINKERTON
E-Mail: leakejd@chevron.com

9. API Well No.
30-025-43087-00-X1 ✓

3a. Address
1616 W. BENDER BLVD
HOBBS, NM 88240

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

10. Field and Pool, or Exploratory
JENNINGS

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 14 T26S R32E SESE 215FSL 648FEL ✓

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 Production Start-up
	☐ 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.)

COMPLETION REPORT FOR NEW DRILL:
06/13/2016: MIRU.
06/17/2016: TEST 5 1/2" PROD CSG @ 9500PSI FOR 30 MINS. ESTAB INJECTION RATE. MAX PRESS-6800PSI. TOTAL BBLS: 16.5.

06/18/2016 THROUGH 06/29/2016: PERF 14 STAGES: 9470 - 13,608'.
FRAC W/5,881,857 LBS TOTAL SAND (100 MESH & 40/70)
SEE DETAILED PERF & FRAC REPORT ATTACHED

07/04/2016: SET TOP OF PKR @ 8500'.
07/08/2016: TEST EQPT & TEST BOP BLIND RAMS & PIPE RAMS TO 250L/4500H FOR 5 MINS. GOOD. TEST ANNULAR 250L/3000H. GOOD.

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

Electronic Submission #353348 verified by the BLM Well Information System
For CHEVRON USA INC, sent to the Hobbs
Committed to AFMSS for processing by JENNIFER SANCHEZ on 10/03/2016 (17JAS0006SE)

Name *(Printed/Typed)* DENISE PINKERTON — Title REGULATORY SPECIALIST

Signature (Electronic Submission) — Date 10/03/2016

ACCEPTED FOR RECORD
OCT 3 2016
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____ Date _____

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

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 ****

Additional data for EC transaction #353348 that would not fit on the form

32. Additional remarks, continued

07/11/2016: SET 2 7/8" TBG @ 8511'. PKR @ 8511'.
07/12/2016: PRESS UP TBG TO 1000PSI. NO COMM SEEN ON CSG. PRESS UP CSG TO 500 PSI. RIG DOWN.

09/09/2016: ON 24 HR OPT. FLOWING 970 OIL, 1836 GAS, 1662 WATER. GOR - 1893.

TBG PRESS - 880PSI. CSG PRESS - 445PSI. 36/64" CHOKE.

Tubing Summary

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 14 FED P7 004H	SD 14 FED P7	JENNINGS	Mid-Continent

Ground Elevation (ft)	Original RKB Elevation (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,185.00	3,197.80	3,197.80, 3/28/2016		

Current KB to Ground (ft)	Current KB to Mud Line (ft)	Current KB to Csg Flange (ft)	Current KB to Tubing Head (ft)
32.80			

Land - Original Hole, 7/11/2016

MD (ftKB)	TVD (ftKB)	Incl (°)	Vertical schematic (actual)

1-1, TUBING, 2 7/8, 2.441, 11, 31.10
1-2, TUBING SUB, 2 7/8, 2.441, 42, 10.01
1-3, TUBING, 2 7/8, 2.441, 52, 1,930.26
1-4, GAS LIFT VALVE #12, 4.34, 2.441, 1,983, 4.10
1-5, TUBING, 2 7/8, 2.441, 1,987, 891.60
1-6, GAS LIFT VALVE #11, 4.34, 2.441, 2,878, 4.10
1-7, TUBING, 2 7/8, 2.441, 2,883, 558.04
1-8, GAS LIFT VALVE #10, 4.34, 2.441, 3,441, 4.10
1-9, TUBING, 2 7/8, 2.441, 3,445, 581.68
1-10, GAS LIFT VALVE #9, 4.34, 2.441, 4,007, 4.10
1-11, TUBING, 2 7/8, 2.441, 4,011, 529.44
1-12, GAS LIFT VALVE #8, 4.34, 2.441, 4,540, 4.10
1-13, TUBING, 2 7/8, 2.441, 4,544, 561.97
1-14, GAS LIFT VALVE #7, 4.34, 2.441, 5,106, 4.10
1-15, TUBING, 2 7/8, 2.441, 5,110, 561.53
1-16, GAS LIFT VALVE #6, 4.34, 2.441, 5,672, 4.10
1-17, TUBING, 2 7/8, 2.441, 5,676, 527.54
1-18, GAS LIFT VALVE #5, 4.34, 2.441, 6,203, 4.10
1-19, TUBING, 2 7/8, 2.441, 6,208, 554.51
1-20, GAS LIFT VALVE #4, 4.34, 2.441, 6,762, 4.10
1-21, TUBING, 2 7/8, 2.441, 6,766, 527.06
1-22, GAS LIFT VALVE #3, 4.34, 2.441, 7,293, 4.10
1-23, TUBING, 2 7/8, 2.441, 7,297, 560.85
1-24, GAS LIFT VALVE #2, 4.34, 2.441, 7,858, 4.10
1-25, TUBING, 2 7/8, 2.441, 7,862, 590.39
1-26, GAS LIFT VALVE #1, 4.34, 2.441, 8,453, 4.10
1-27, TUBING, 2 7/8, 2.441, 8,457, 31.10
1-28, ON-OFF TOOL, 2.313 X PROFILE, 4 1/2, 2.313, 8,488, 1.83
1-29, 450 WL HORNET PACKER, 4 1/2, 2.370, 8,490, 7.60
1-30, Tubing, 2 7/8, 2.441, 8,498, 8.26
1-31, XN Nipple W/2.205 NO-GO, 2 7/8, 2.205, 8,504, 1.16
1-32, Tubing Sub, 2 7/8, 2.441, 8,505, 4.10
1-33, MAGNUM DISK, 2 7/8, 2.441, 8,509, 1.91

Tubing Strings

Tubing Description	Planned Run?	Set Depth (MD) (ftKB)	Set Depth (TVD) (ftKB)
Tubing - Production	N	8,511.0	8,492.5

Run Date	Run Job	Pull Date	Pull Job
7/11/2016	Complete, 6/12/2016 06:00		

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
1	TUBING	2 7/8	2.441	6.50	L-80	8RD	31.10	11.4	42.5
1	TUBING SUB	2 7/8	2.441	6.50	L-80	8RD	10.01	42.5	52.5
62	TUBING	2 7/8	2.441	6.50	L-80	8RD	1,930.26	52.5	1,982.7
1	GAS LIFT VALVE #12	4.335	2.441			8RD	4.10	1,982.7	1,986.8
29	TUBING	2 7/8	2.441	6.50	L-80	8RD	891.60	1,986.8	2,878.4
1	GAS LIFT VALVE #11	4.335	2.441			8RD	4.10	2,878.4	2,882.5
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	558.04	2,882.5	3,440.6
1	GAS LIFT VALVE #10	4.335	2.441			8RD	4.10	3,440.6	3,444.7
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	561.68	3,444.7	4,006.6
1	GAS LIFT VALVE #9	4.335	2.441			8RD	4.10	4,006.6	4,010.7
17	TUBING	2 7/8	2.441	6.50	L-80	8RD	529.44	4,010.7	4,540.1
1	GAS LIFT VALVE #8	4.335	2.441			8RD	4.10	4,540.1	4,544.2
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	561.97	4,544.2	5,106.2
1	GAS LIFT VALVE #7	4.335	2.441			8RD	4.10	5,106.2	5,110.3
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	561.53	5,110.3	5,671.8
1	GAS LIFT VALVE #6	4.335	2.441			8RD	4.10	5,671.8	5,675.9
17	TUBING	2 7/8	2.441	6.50	L-80	8RD	527.54	5,675.9	6,203.4
1	GAS LIFT VALVE #5	4.335	2.441			8RD	4.10	6,203.4	6,207.5
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	554.61	6,207.5	6,762.1
1	GAS LIFT VALVE #4	4.335	2.441			8RD	4.10	6,762.1	6,766.2
17	TUBING	2 7/8	2.441	6.50	L-80	8RD	527.06	6,766.2	7,293.3
1	GAS LIFT VALVE #3	4.335	2.441			8RD	4.10	7,293.3	7,297.4
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	560.85	7,297.4	7,858.3
1	GAS LIFT VALVE #2	4.335	2.441			8TRD	4.10	7,858.3	7,862.4
19	TUBING	2.785	2.441	6.50	L-80	8RD	590.39	7,862.4	8,452.7
1	GAS LIFT VALVE #1	4.335	2.441			8RD	4.10	8,452.7	8,456.8
1	TUBING	2 7/8	2.441	6.50	L-80	8RD	31.10	8,456.8	8,487.9
1	ON-OFF TOOL, 2.313 X PROFILE	4 1/2	2.313			8RD	1.83	8,487.9	8,489.8
1	450 WL HORNET PACKER	4 1/2	2.370			8RD	7.60	8,489.8	8,497.6
1	Tubing	2 7/8	2.441	6.50	L-80	8RD	8.26	8,497.6	8,503.8
1	XN Nipple W/2.205 NO-GO	2 7/8	2.205			8RD	1.16	8,503.8	8,505.0
1	Tubing Sub	2 7/8	2.441	6.50	L-80	8RD	4.10	8,505.0	8,509.1
1	MAGNUM DISK	2 7/8	2.441			8RD	1.91	8,509.1	8,511.0

Report Printed: 9/30/2016

Tubing Summary

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 14 FED P7 004H	SD 14 FED P7	JENNINGS	Mid-Continent

Ground Elevation (ft)	Original RKB Elevation (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,165.00	3,197.60	3,197.60, 3/28/2016		

Current KB to Ground (ft)	Current KB to Mud Line (ft)	Current KB to Cag Flange (ft)	Current KB to Tubing Head (ft)
32.60			

Land - Original Hole, 7/11/2016

MD (ftKB)	TVD (ftKB)	Incl (°)	Vertical schematic (actual)

1-1, TUBING, 2 7/8, 2.441, 11, 31.10
1-2, TUBING SUB, 2 7/8, 2.441, 42, 10.01
1-3, TUBING, 2 7/8, 2.441, 52, 1,930.26
1-4, GAS LIFT VALVE #12, 4.34, 2.441, 1,983, 4.10
1-5, TUBING, 2 7/8, 2.441, 1,987, 891.60
1-6, GAS LIFT VALVE #11, 4.34, 2.441, 2,878, 4.10
1-7, TUBING, 2 7/8, 2.441, 2,883, 558.04
1-8, GAS LIFT VALVE #10, 4.34, 2.441, 3,441, 4.10
1-9, TUBING, 2 7/8, 2.441, 3,445, 561.88
1-10, GAS LIFT VALVE #9, 4.34, 2.441, 4,007, 4.10
1-11, TUBING, 2 7/8, 2.441, 4,011, 529.44
1-12, GAS LIFT VALVE #8, 4.34, 2.441, 4,540, 4.10
1-13, TUBING, 2 7/8, 2.441, 4,544, 561.97
1-14, GAS LIFT VALVE #7, 4.34, 2.441, 5,106, 4.10
1-15, TUBING, 2 7/8, 2.441, 5,110, 561.53
1-16, GAS LIFT VALVE #6, 4.34, 2.441, 5,672, 4.10
1-17, TUBING, 2 7/8, 2.441, 5,676, 527.54
1-18, GAS LIFT VALVE #5, 4.34, 2.441, 6,203, 4.10
1-19, TUBING, 2 7/8, 2.441, 6,208, 554.61
1-20, GAS LIFT VALVE #4, 4.34, 2.441, 6,762, 4.10
1-21, TUBING, 2 7/8, 2.441, 6,766, 527.06
1-22, GAS LIFT VALVE #3, 4.34, 2.441, 7,293, 4.10
1-23, TUBING, 2 7/8, 2.441, 7,297, 560.85
1-24, GAS LIFT VALVE #2, 4.34, 2.441, 7,858, 4.10
1-25, TUBING, 2 7/8, 2.441, 7,862, 590.39
1-26, GAS LIFT VALVE #1, 4.34, 2.441, 8,453, 4.10
1-27, TUBING, 2 7/8, 2.441, 8,457, 31.10
1-28, ON-OFF TOOL, 2.313 X PROFILE, 4 1/2, 2.313, 8,488, 1.83
1-29, 450 WL HORNET PACKER, 4 1/2, 2.370, 8,490, 7.80
1-30, Tubing, 2 7/8, 2.441, 8,498, 6.26
1-31, XN Nipple WO 205 NO GO, 2 7/8, 2.205, 8,504, 1.16
1-32, Tubing Sub, 2 7/8, 2.441, 8,505, 4.10
1-33, MAGNUM DISK, 2 7/8, 2.441, 8,509, 1.91

Rod Strings

Rod Description	Planned Run?	Set Depth (ftKB)	Set Depth (TVD) (ftKB)

Run Date	Run Job	Pull Date	Pull Job

Rod Components

Jts	Item Des	OD (in)	Grade	Model	Len (ft)	Top (ftKB)	Btm (ftKB)

Report Printed: 9/30/2016

SD WE 14 FED P7 #004H

PERF & FRAC INFORMATION

STAGE 1: 13843, 13783, 13723, 13663, 13603
6 spf, .41 dia hole. Total bbls pumped: 617 bbls. Max pressure: 5920 psi
PUMP STAGE 1:
Sand in formation 419,808 lbs 100% Prime up & test lines to 9500psi.
Equalize/open well @ 1443 psi. Avg Rate 86.0 bpm. Avg press:5214 psi.
Max Rate: 86.0 bpm Max Press:8060 psi. ISIP:1924 psi
Pump Time 124 mins Total clean fluid 9064 bbls Total slurry volume 9278 bbls
Sand pumped: Sand 100 – 31,889 lbs Sand 40/70 – 388,951 lbs TOTAL:420,840 lbs

STAGE 2: 13308, 13248, 13188, 13128, 13068
6 jspf, .41 dia hole. Total bbls pmpd: 336 bbls, max pressure 2360 psi
PUMP STAGE 2:
Sand in formation 419,808 lbs: 100% Test lines to 9500 psi.
Equalize/open well @ 1433 psi. Avg Rate: 90.7 bpm Avg Pressure 5423 psi
Max rate: 91.0 bpm Max Pressure 7882 psi ISIP 1791 psi
Pump Time: 116 mins. Total clean fluid:9291 bbls Total Slurry volume:9749 bbls
Sand pumped: Sand 100 – 32,737 lbs, Sand 40/70: 388,673 lbs TOTAL: 421,410 lbs

STAGE 3: 13012, 12948, 12890, 12828, 12768
6 jspf, .41 dia hole. Total bbls pmpd: 221 bbls. Max pressure: 2198 psi
PUMP STAGE 3
Sand in formation 419,808 lbs, 100% Prime up & test lines to 9500psi.
Equalize/open well @ 1420 psi. Ave Rate: 90.0 bpm Ave Pressure: 5257 psi
Max Rate:90.5 bpm, Max Pressure: 8508 psi. ISIP: 1876 psi.
Pump Time: 122 mins. Total clean fluid: 8929 bbls. Total slurry volume:9381 bbls
Sand Pumped: Sand 100 –32,524 lbs, Sand 40/70:387,443 lbs. TOTAL: 419,967 lbs

STAGE 4: 12708, 12648, 12586, 12528, 12468
6 JSPF, .41 dia hole. . Max press of 2369 psi w/273 bbls pumped.
PUMP STAGE 4:
Sand in formation 419,808 lbs, 100% Prime up & test lines to 9500 psi.
Equalize/open well @ 1437 psi. Avg Rate: 89.7 bpm, Avg Pressure: 5595 psi.
Max Rate: 90.7 bpm, Max Pressure: 8556 psi. ISIP:1962 psi.
Pump Time: 118 mins. Total clean fluid: 9120 bbls, Total slurry volume: 9573 bbls
Sand pumped: Sand 100: 32,746 lbs, Sand 40/70L 387,883 lbs, TOTAL: 420,629 lbs

STAGE 5: 12408, 12350, 12288, 12228, 12168
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. . Max pressure of 2165psi w/183 bbls pumped.
PUMP STAGE 5:
Sand in formation: 419,808 lbs, 100%, Prime up & test lines to 9500psi.
Equalize/open well @1404 psi. Ave Rate: 86.0 bpm, Avg pressure:5736 psi
Max Rate:86.0 bpm, Max Pressure: 8061 psi. ISIP: 2040 psi.
Pump Time: 120 mins. Total clean fluid:8881 bbls, Total Slurry volume:9334 bbls
Sand pumped: Sand 100:32,522 lbs, Sand 40/70:388,734 lbs, TOTAL: 421,256 lbs

STAGE 6: 12108, 12048, 11988, 11928, 11868
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max Pressure of 2553 psi w/226 bbls pumped.
PUMP STAGE 6:
Sand in formation: 419,808 lbs, 100%. Prime up & test lines to 9500 psi.
Equalize/open well @ 1435 psi. Ave Rate:89.7 bpm, Ave Pressure: 6412 psi.
Max rate:90.4 bpm, Max Pressure:8858 psi. ISIP:2179 psi.
Pump time:116 mins. Total clean fluid: 9033 bbls, Total Slurry volume:9486 bbls
Sand pumped: sand 100:33,157 lbs, sand 40/70:387,193 lbs. TOTAL:420,350 lbs

STAGE 7: 11808, 11748, 11688, 11626, 11568
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. . Max pressure of 3126 psi w/158 bbls pumped.
PUMP STAGE 7:
Sand in formation: 419,808 lbs101 %, Prime up & test lines to 9500 psi.
Equalize/open hole @1450 psi. Ave rate:85.0 bpm, Ave Pressure:5674 psi
Max rate: 85.5 bpm, Max Pressure:8287 psi. ISIP: 2554 psi.
Pump time:124 mins. Total clean fluid:8911 bbls, Total slurry volume:9366 bbls.
Sand Pumped: Sand 100:32,541 lbs, Sand 40/70: 389,684 lbs, TOTAL:422,225 lbs

STAGE 8: 11508, 11448, 11388, 11328, 11268
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max pressure of 3022 psi w/160 bbls pumped.
PUMP STAGE 8:
Sand in formation: 419,808 lbs, 100%, Prime up & test lines to 9500 psi.
Equalize/open hole @ 1411 psi. Ave Rate: 85.0 bpm, Ave pressure: 5215 psi
Max Rate: 86.0 bpm, Max pressure: 8637 psi. ISIP: 1983 psi.
Pump time: 120 mins. Total clean fluid: 8853 bbls, Total slurry volume: 9306 bbls
Sand pumped: Sand 100: 32,493 lbs, Sand 40/70: 387,714 lbs. TOTAL 420,207 lbs

STAGE 9: 11208, 11148, 11088, 11028, 10968
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max pressure of 2106 psi w/152 bbls pumped.
PUMP STAGE 9:
Sand in Formation: 419,808 lbs, 100% Prime up & test lines to 9500 psi.
Equalize/open well @ 1529 psi. Ave Rate: 89.7 bpm, Ave Pressure: 5209 psi.
Max rate: 90.0 bpm, Max pressure: 8510 psi. ISIP: 2086 psi.
Pump time: 115 mins. Total Clean fluid: 9018 bbls, Total slurry volume: 9471 bbls
Sand pumped: Sand 100: 32,917 lbs, Sand 40/70: 387,559 lbs. TOTAL: 420,476 lbs

STAGE 10: 10908, 10858, 10788, 10728, 10668
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max press of 2138 psi w/110 bbls pumped.
PUMP STAGE 10:
Sand in formation: 419,808 lbs, 100% Prime up and test lines to 9500 psi.
Equalize/open well @ 1410 psi. Ave Rate: 85.0 bpm, Ave Pressure: 5664 psi.
Max Rate: 86.0 bpm, Max pressure: 8166 psi. ISIP: 2526 psi.
Pump time: 113 mins. Total clean fluid: 8818 bbls, Total slurry volume: 9272 bbls
Sand pumped: Sand 100: 32,540 lbs, Sand 40/70: 389,027 lbs. TOTAL 421,567 lbs

STAGE 11: 10608, 10548, 10486, 10428, 10370
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max Press 2150 psi w/104 bbls pumped.
PUMP STAGE 11:
Sand in formation: 419,808 lbs, 100%, Prime up and test lines to 9500 psi.
Equalize/open well @ 1410 psi. Ave Rate: 85.0 bpm. Ave Pressure: 5664 psi.
Max rate: 86.0 bpm, Max pressure: 8166 psi. ISIP: 2526 psi.
Pump time: 113 mins. Total clean fluid: 8818 bbls, total slurry volume 9272 bbls.
Sand pumped: Sand 100: 32,540 lbs, Sand 40/70: 389,027 lbs, TOTAL: 421,567 lbs

STAGE 12: 10308, 10248, 10188, 10128, 10068
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max Pressure of 2601 psi w/95 bbls pmped.
PUMP STAGE 12:
Sand in formation: 419,808 lbs, 99% Prime up and test lines to 9500 psi.
Equalize/open well @ 1577 psi. Ave Rate: 89.5 bpm, Ave pressure: 5869 psi
Max rate: 90.1 bpm, Max pressure: 8262 psi, ISIP: 2282 psi.
Pump time: 114 mins, Total clean fluid: 8911 bbls, Total slurry volume: 9357 bbls.
Sand pumped: Sand 100: 33,024 lbs, Sand 40/70: 381,494 lbs, TOTAL: 414,518 lbs.

STAGE 13: 10008, 9946, 9888, 9825, 9768
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max pressure of 2262 psi w/71 bbls pumped.
PUMP STAGE 13:
Sand in formation: 419,808 lbs, 99%, Prime up & test lines to 9500 psi.
Equalize/open well @ 1525 psi. Ave Rate: 85.0 bpm, Ave Pressure: 4721 psi.
Max Rate: 85.5 bpm, Max Pressure: 8413 psi. ISIP: 1969 psi.
Pump time: 125 mins. Total clean fluid: 8872 bbls, Total slurry volume: 9321 bbls.
Sand pumped: Sand 100: 32,568 lbs, Sand 40/70: 385,022 lbs TOTAL: 417,590 lbs

STAGE 14: 9705, 9648, 9591, 9528, 9470
6 JSPF, .41 dia hole. Pump down @ 15 bpm. Max press of 2227 psi w/62 bbls pumped.
PUMP STAGE 14:
Sand in formation: 419,808lbs 100%. Prime up & test lines to 9500 psi.
Equalize/open hole W 1611 psi. Ave rate: 84.9 bpm, Ave Press: 5284 psi
Max Rate: 85.5 bpm, Max pressure: 8482 psi. ISIP: 2295 psi.
Pump time: 123 mins. Total clean fluid: 8891 bbls, Total slurry volume: 9344 bbls.
Sand pumped: Sand 100: 32,670 lbs, Sand 40/70: 387,553 lbs, TOTAL 420,223 lbs.