District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

HOBBS OCD
OCT 07 2016
RECEIVED

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

[1] Operator name and Address	[2] OGRID Number
CHEVRON U.S.A. INC. 15 SMITH ROAD MIDLAND, TEXAS 79705	4323
	[3] Reason for Filing Code/ Effective Date NEW WELL EFFECTIVE 08/2016

[4] API Number	[5] Pool Name	[6] Pool Code
30 – 25-43088	JENNINGS; UPPER BONE SPRING SHALE	97838

[7] Property Code	[8] Property Name	[9] Well Number
316011	SD WE 23 FEDERAL P7	003H

II. [10] Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
P	14	26S	32E		215	SOUTH	673	EAST	LEA

[11] Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	23	26S	32E		109	SOUTH	958	EAST	LEA

[12] Lse Code	[13] Producing Method Code	[14] Gas Connection Date	[15] C-129 Permit Number	[16] C-129 Effective Date	[17] C-129 Expiration Date
FEDERAL	FLOWING	08/01/2016			

III. Oil and Gas Transporters

[18] Transporter OGRID	[19] Transporter Name and Address	[20] O/G/W
	WESTERN PIPELINE	OIL
	DBM	GAS

IV. Well Completion Data

[21] Spud Date	[22] Ready Date	[23] TD	[24] PBTD	[25] Perforations	[26] DHC, MC
04/17/2016	06/29/2016	14,043	13,980	9403 – 13,845	

[27] Hole Size	[28] Casing & Tubing Size	[29] Depth Set	[30] Sacks Cement
17 ½"	13 3/8"	822	960 SX
12 ¼"	9 5/8"	4568	1475 SX
8 ¾"	5 ½"	14,027	1730 SX
	2 7/8" TBG	8508'	

V. Well Test Data

[31] Date New Oil	[32] Gas Delivery Date	[33] Test Date	[34] Test Length	[35] Tbg. Pressure	[36] Csg. Pressure
08/01/2016	08/01/2016	09/20/2016	24 HRS	921	403
[37] Choke Size	**[38] Oil**	**[39] Water**	**[40] Gas**		**[41] Test Method**
33/64	1037	1048	1934		FLOWING

[42] I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: Denise Pinkerton

Printed name: DENISE PINKERTON

Title: REGULATORY SPECIALIST

E-mail Address: Leakejd@chevron.com

Date: 10/04/2016

Phone: 432-687-7375

OIL CONSERVATION DIVISION

Approved by:

Title: Petroleum Engineer

Approval Date: 10/12/16

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

OCT 07 2016

RECEIVED

5. Lease Serial No. NMNM118723

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator: CHEVRON U.S.A. INC.
Contact: DENISE PINKERTON
E-Mail: leakejd@chevron.com

8. Lease Name and Well No.: SD WE 23 FEDERAL P7 003H

3. Address: 6301 DEAUVILLE BLVD, MIDLAND, TX 79706

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

9. API Well No.: 30-025-43088

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface: Sec 14 T26S R32E Mer NMP, 215FSL 673FEL
At top prod interval reported below: Sec 23 T26S R32E Mer NMP, 109FSL 958FEL
At total depth: Sec 23 T26S R32E Mer NMP, 109FSL 958FEL

10. Field and Pool, or Exploratory: BONE SPRING

11. Sec., T., R., M., or Block and Survey or Area: Sec 14 T26S R32E Mer NMP

12. County or Parish: LEA

13. State: NM

14. Date Spudded: 04/17/2016

15. Date T.D. Reached: 05/25/2016

16. Date Completed ☐ D & A ☒ Ready to Prod. 06/29/2016

17. Elevations (DF, KB, RT, GL)*: 3165 GL

18. Total Depth: MD 14043 TVD 9017

19. Plug Back T.D.: MD 13980 TVD

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each): CBL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J-55	54.5		822		960		0	
12.250	9.625 HCK-55	40.0		4568		1475		0	
8.750	5.500 HCP-110	20.0		14027		1730		3148	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	8508	8490						

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	BONE SPRING	9403	13845	9403 TO 13845			PRODUCING ***SEE DETAILED F
B)							
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
9403 TO 13845	FRAC W/TOTAL SAND (100 MESH & 20/40) = 6,310,764 LBS ***DETAILED FRAC REPORT ATTACHED

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/01/2016	09/20/2016	24	→	1037.0	1934.0	1048.0			FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
33/64	921	403.0	→				1865	POW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #353475 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
CASTILE	2840	4579	ANHYDRITE	CASTILE	2840
LAMAR	4580	4629	LIMESTONE	LAMAR	4580
BELL CANYON	4630	5689	SANDSTONE	BELL CANYON	4630
CHERRY CANYON	5690	7279	SANDSTONE	CHERRY CANYON	5690
BRUSHY CANYON	7280	8819	SANDSTONE	BRUSHY CANYON	7280
BONE SPRING LIME	8820	8869	SHALE/LIMESTONE	BONE SPRING LIME	8820
UPPER AVALON	8870	14043	SHALE/LIMESTONE	UPPER AVALON	8870

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7. Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #353475 Verified by the BLM Well Information System.
For CHEVRON U.S.A. INC., sent to the Hobbs

Name *(please print)* DENISE PINKERTON Title PERMITTING SPECIALIST

Signature (Electronic Submission) Date 10/04/2016

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 fradulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD
OCT 07 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.
NMNM118723

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 23 FEDERAL P7 003H

2. Name of Operator
CHEVRON U.S.A. INC.
Contact: DENISE PINKERTON
E-Mail: leakejd@chevron.com

9. API Well No.
30-025-43088

3a. Address
6301 DEAUVILLE BLVD
MIDLAND, TX 79706

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

10. Field and Pool, or Exploratory
BONE SPRING

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 14 T26S R32E Mer NMP 215FSL 673FEL

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 Drilling Operations
	☐ 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.)

04/17/2016: SPUD WELL. DRILL SURFACE HOLE FR 112-380, 702, 832.

04/18/2016: RUN 13 3/8",54.5#,J-55,STC CSG SET @ 822'. FC @ 782'. PRESS TEST 3O 3000PSI. PUMP 40 BBLS SPACER @ 8.3PPG. MIX & PMP 960 SX CMT @ 14.8PPG. DISPL CMT W/120 BBLS 8.3PPG FW. BUMP PLUG W/529 PSI OVER FINAL CIRC PRESS. FULL RETURNS THROUGHOUT JOB. FINAL CIRC PRESS PRIOR TO BUMPING PLUG 341 PSI @ 2.1BPM. 97 BBLS CMT TO SURF. CMT IN PLACE @ 10:30.

05/16/2016: TEST BOPE TO 250PSI/5000PSI. PRESS TEST SURF CSG TO 1500 PSI FOR 30 MINS. GOOD. DRILL 10' NEW FORMATION TO 842'. DRILL INTERMEDIATE HOLE 842-1056,1982, 2772, 3325, 4047, 4578'.

05/18/2016: RUN 9 5/8",40#,HCK-55 LTC CSG & SET @ 4568'. FC @ 4482. PRESS TEST LINES TO 1000PSI LOW/2500PSI HIGH. PMP 35 BBLS DYED FW SPACER. MIX & PUMP 1025 SX LEAD @ 11.9PPG, & 450 SX TAIL @

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #353459 verified by the BLM Well Information System
For CHEVRON U.S.A. INC., sent to the Hobbs

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

Signature (Electronic Submission) — Date 10/04/2016

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.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Additional data for EC transaction #353459 that would not fit on the form

32. Additional remarks, continued

14.8PPG. BUMP PLUG W/510PSI OVER FINAL CIRC PRESS. FULL RETURNS THROUGHOUT JOB. FINAL CIRC PRESS PRIOR TO BUMPING PLUG 1300PSI @ 3.3BPM. 497 SX CMT RETURNED TO SURF.CMT IN PLACE @ 01:15 HRS. WOC. PRESS TEST INTERMEDIATE CSG TO 2800PSI FOR 30 MINS. DRILL 10' NEW FORMATION TO 4588'.

05/19/2016: DRILL 4588-5018, 5897, 6910, 7850, 8510, 8540, 8781, 9027, 9330, 9456, 9662, 10164, 10535, 10978, 11421, 11840, 11895, 12331, 12840, 13637, 14043. (***TD REACHED ON 05/25/2016)

05/26/2016: RAN 5 1/2",20#,HCP-110 TXP BTC PRODUCTION CSG SET @ 14,027'. LC @ 13940, RSI TOOL @ 13880, MRKR JT @ 8522. PRESS TEST 500PSI/6500PSI. CMT W/630 SX CL H LEAD 1, 980 SX CL H LEAD 2, & 120 SX CL H TAIL.BUMP PLUG @ 2115PSI. FULL RETURNS THROUGHOUT JOB. CMT IN PLACE @ 16:47.

RELEASE RIG.

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD
OCT 07 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.
NMNM118723

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 23 FEDERAL P7 003H

2. Name of Operator
CHEVRON U.S.A. INC.
Contact: DENISE PINKERTON
E-Mail: leakejd@chevron.com

9. API Well No.
30-025-43088

3a. Address
6301 DEAUVILLE BLVD
MIDLAND, TX 79706

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

10. Field and Pool, or Exploratory
BONE SPRING

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 14 T26S R32E Mer NMP 215FSL 673FEL

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. RUN CBL LOG.
06/17/2016: TEST 5 1/2" PRODUCTION CSG @ 9500PSI FOR 30 MINS. ESTAB INJECTION RATE: MAX PRESS-6000PSI, 60 BBLS.

06/18/2016 THROUGH 06/29/2016: PERF 15 STAGES: 9403 - 13,845'
FRAC W/TOTAL SAND (100 MESH & 20/40) = 6,310,764 LBS
DETAILED REPORT FOR PERF & FRAC IS ATTACHED

07/04/2016: PRESS TEST WIRELINE LUBRICATOR TO 5000PSI. GOOD.
SET PKR @ 8490.
07/12/2016: TEST BOP BLIND RAMS & PIPE RAMS TO 250L/4500H. GOOD. TEST ANNULAR 250L/3000H. GOOD.

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

Electronic Submission #353466 verified by the BLM Well Information System
For CHEVRON U.S.A. INC., sent to the Hobbs

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

Signature (Electronic Submission) — Date 10/04/2016

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.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Additional data for EC transaction #353466 that would not fit on the form

32. Additional remarks, continued

07/13/2016: SET 2 7/8" TBG @ 8508'. PKR @ 8490
07/14/2016: RIG DOWN.

09/20/2016: ON 24 HR OPT. FLOWING 1037 OIL, 1934 GAS, 1048 WATER. GOR - 1865.
TBG-921PSI, CSG-403PSI ON 33/64" CHOKE. TOC @ 3148'.

SD WE 23 P7 #003H

PERF & FRAC INFORMATION

STAGE 1: 13843, 13783, 13723, 13663, 13603
6 spf, .41 dia hole. Total bbls pumped: 983 bbls. Max pressure: 7742 psi
PUMP STAGE 1:
Sand in formation 419,808 lbs 100% Prime up & test lines to 9500psi.
Equalize/open well @ 1352 psi. Avg Rate 85.7 bpm. Avg press:5935 psi.
Max Rate: 86.2 bpm Max Press:8554 psi. ISIP:1986 psi
Pump Time 127 mins Total clean fluid 9294 bbls Total slurry volume 9752 bbls
Sand pumped: Sand 100 – 32,633 lbs Sand 40/70 – 388,364 lbs TOTAL:420,997 lbs

STAGE 2: 13483, 13423, 13363, 13300
6 jspf, .41 dia hole. Total bbls pmpd: 363 bbls, max pressure 2748 psi
PUMP STAGE 2:
Sand in formation 419,808 lbs: 100% Test lines to 9500 psi.
Equalize/open well @ 1554 psi. Avg Rate: 96.0 bpm Avg Pressure 5654 psi
Max rate: 86.0 bpm Max Pressure 8229 psi ISIP 2314 psi
Pump Time: 122 mins. Total clean fluid:8916 bbls Total Slurry volume:9372 bbls
Sand pumped: Sand 100 – 32,516 lbs, Sand 40/70: 386,625 lbs TOTAL: 419,141 lbs

STAGE 3: 13243, 13183, 13123, 13063, 13003
6 jspf, .41 dia hole. Total bbls pmpd: 222 bbls. Max pressure: 2445 psi
PUMP STAGE 3
Sand in formation 419,808 lbs, 100% Prime up & test lines to 9500psi.
Equalize/open well @ 1585 psi. Ave Rate: 92.0 bpm Ave Pressure: 6001 psi
Max Rate:92.0 bpm, Max Pressure: 8122 psi. ISIP: 2108 psi.
Pump Time: 114 mins. Total clean fluid: 9083 bbls. Total slurry volume:9539 bbls
Sand Pumped: Sand 100 –33,152 lbs, Sand 40/70: 390,210 lbs. TOTAL: 423,362 lbs

STAGE 4: 12943, 12883, 12823, 12766, 12703
6 JSPF, .41 dia hole. . Max press of 1472 psi w/292 bbls pumped.
PUMP STAGE 4:
Sand in formation 419,808 lbs, 100% Prime up & test lines to 9500 psi.
Equalize/open well @ 1566 psi. Avg Rate: 91.1 bpm, Avg Pressure: 5450 psi.
Max Rate: 91.5 bpm, Max Pressure: 8220 psi. ISIP:2287 psi.
Pump Time: 117 mins. Total clean fluid: 9073 bbls, Total slurry volume: 9526 bbls
Sand pumped: Sand 100: 32,866 lbs, Sand 40/70L 387,412 lbs, TOTAL: 420,278 lbs

STAGE 5: 12643, 12583, 12523, 12463, 12403
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. . Max pressure of 2285psi w/225 bbls pumped.
PUMP STAGE 5:
Sand in formation: 419,808 lbs, 100%, Prime up & test lines to 9500psi.
Equalize/open well @1661 psi. Ave Rate: 90.5 bpm, Avg pressure:6462 psi
Max Rate:91.0 bpm, Max Pressure: 8230 psi. ISIP: 2449 psi.
Pump Time: 115 mins. Total clean fluid:8904 bbls, Total Slurry volume:9357 bbls
Sand pumped: Sand 100:32,329 lbs, Sand 40/70:388,524 lbs, TOTAL: 420,853 lbs

STAGE 6: 12343, 12283, 12223, 12163, 12103
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max Pressure of 3316 psi w/267 bbls pumped.
PUMP STAGE 6:
Sand in formation: 419,808 lbs, 100%. Prime up & test lines to 9500 psi.
Equalize/open well @ 1610 psi. Ave Rate:89.7 bpm, Ave Pressure: 5942 psi.
Max rate:90.0 bpm, Max Pressure:8836 psi. ISIP:2069 psi.
Pump time:116 mins. Total clean fluid: 9056 bbls, Total Slurry volume:9509 bbls
Sand pumped: sand 100: 32,683 lbs, sand 40/70:388,156 lbs. TOTAL:420,839 lbs

STAGE 7: 12043, 11983, 11920, 11863, 11803
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. . Max pressure of 2462 psi w/162 bbls pumped.
PUMP STAGE 7:
Sand in formation: 419,808 lbs101 %, Prime up & test lines to 9500 psi.
Equalize/open hole @1639 psi. Ave rate:86.0 bpm, Ave Pressure:5283 psi
Max rate: 86.0 bpm, Max Pressure:8402 psi. ISIP: 2110 psi.
Pump time:125 mins. Total clean fluid:8913 bbls, Total slurry volume:9368 bbls.
Sand Pumped: Sand 100:32,598 lbs, Sand 40/70: 389,640 lbs, TOTAL:422,238 lbs

STAGE 8: 11743, 11680, 11623, 11563, 11503
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max pressure of 2556 psi w/169 bbls pumped.
PUMP STAGE 8:
Sand in formation: 419,808 lbs, 100%, Prime up & test lines to 9500 psi.
Equalize/open hole @ 1610 psi. Ave Rate: 85.0 bpm, Ave pressure: 5863 psi
Max Rate: 86.0 bpm, Max pressure: 8423 psi. ISIP: 2163 psi.
Pump time: 121 mins. Total clean fluid: 8927 bbls, Total slurry volume: 9380 bbls
Sand pumped: Sand 100: 32,524 lbs, Sand 40/70: 388,643 lbs. TOTAL 421,167 lbs

STAGE 9: 11443, 11383, 11323, 11263, 11203
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max pressure of 2058 psi w/336 bbls pumped.
PUMP STAGE 9:
Sand in Formation: 419,808 lbs, 100% Prime up & test lines to 9500 psi.
Equalize/open well @ 1673 psi. Ave Rate: 89.9 bpm, Ave Pressure: 5507 psi.
Max rate: 90.2 bpm, Max pressure: 8451 psi. ISIP: 2017 psi.
Pump time: 117 mins. Total Clean fluid: 9013 bbls, Total slurry volume: 9465 bbls
Sand pumped: Sand 100: 33,346 lbs, Sand 40/70: 387,156 lbs. TOTAL: 420,502 lbs

STAGE 10: 11143, 11083, 11023, 10963, 10903
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max press of 2213 psi w/128 bbls pumped.
PUMP STAGE 10:
Sand in formation: 419,808 lbs, 100% Prime up and test lines to 9500 psi.
Equalize/open well @ 1643 psi. Ave Rate: 90.0 bpm, Ave Pressure: 5418 psi.
Max Rate: 90.0 bpm, Max pressure: 8330 psi. ISIP: 2197 psi.
Pump time: 113 mins. Total clean fluid: 8867 bbls, Total slurry volume: 9321 bbls
Sand pumped: Sand 100: 32,490 lbs, Sand 40/70: 388,814 lbs. TOTAL 421,304 lbs

STAGE 11: 10843, 10778, 10723, 10663, 10603
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max Press 2230 psi w/112 bbls pumped.
PUMP STAGE 11:
Sand in formation: 419,808 lbs, 100%, Prime up and test lines to 9500 psi.
Equalize/open well @ 1609 psi. Ave Rate: 90.0 bpm. Ave Pressure: 6506 psi.
Max rate: 90.0 bpm, Max pressure: 8447 psi. ISIP: 2335 psi.
Pump time: 116 mins. Total clean fluid: 8846 bbls, total slurry volume 9299 bbls.
Sand pumped: Sand 100: 32,476 lbs, Sand 40/70: 388,129 lbs, TOTAL: 420,605 lbs

STAGE 12: 10543, 10483, 10423, 10363, 10303
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max Pressure of 2665 psi w/115 bbls pmped.
PUMP STAGE 12:
Sand in formation: 419,808 lbs, 99% Prime up and test lines to 9500 psi.
Equalize/open well @ 1663 psi. Ave Rate: 89.1 bpm, Ave pressure: 6146 psi
Max rate: 90.0 bpm, Max pressure: 8327 psi, ISIP: 2056 psi.
Pump time: 116 mins, Total clean fluid: 9008 bbls, Total slurry volume: 9457 bbls.
Sand pumped: Sand 100: 32,953 lbs, Sand 40/70: 384,036 lbs, TOTAL: 416,989 lbs.

STAGE 13: 10241, 10183, 10123, 10063, 10003
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max pressure of 3902 psi w/82 bbls pumped.
PUMP STAGE 13:
Sand in formation: 419,808 lbs, 99%, Prime up & test lines to 9500 psi.
Equalize/open well @ 1700 psi. Ave Rate: 85.0 bpm, Ave Pressure: 5428 psi.
Max Rate: 85.0 bpm, Max Pressure: 9113 psi. ISIP: 2370 psi.
Pump time: 128 mins. Total clean fluid: 9145 bbls, Total slurry volume: 9600 bbls.
Sand pumped: Sand 100: 32,479 lbs, Sand 40/70: 390,398 lbs TOTAL: 422,877 lbs

STAGE 14: 9943, 9883, 9823, 9763, 9703
6 JSPF, .41 dia hole. Pump down @ 15 bpm. Max press of 2585 psi w/82 bbls pumped.
PUMP STAGE 14:
Sand in formation: 419,808lbs 100%. Prime up & test lines to 9500 psi.
Equalize/open hole W 1874 psi. Ave rate: 88.4 bpm, Ave Press: 5799 psi
Max Rate: 88.9bpm, Max pressure: 8771 psi. ISIP: 2240 psi.
Pump time: 118 mins. Total clean fluid: 9016 bbls, Total slurry volume: 9467 bbls.
Sand pumped: Sand 100: 32,071 lbs, Sand 40/70: 387,263 lbs, TOTAL 419,334 lbs.

STAGE 15: 9643, 9583, 9522, 9463, 9403
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max press 2508 psi @ 61 bbls pumped.
PUMP STAGE 15:
Sand in formation: 419808 lbs, 100%. Prime up & test lines to 9500 psi.
Equalize/open well @ 1678 psi. Ave Rate: 85.0 bpm, Ave Pressure: 4317 psi.
Max Rate: 85.0 bpm, Max pressure: 8186 psi, ISIP:2175 psi.
Pump time 121 mins, Total clean fluid: 8779 bbls, Total slurry volume: 9231 bbls
Sand pumped: Sand 100: 32,528 lbs, Sand 40/70: 387,650 lbs, TOTAL 420,178 lbs