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

HOBBS OCD
SEP 06 2016
RECEIVED

State of New Mexico
Energy, Minerals & Natural Resources

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

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 06/2016

[4] API Number	[5] Pool Name	[6] Pool Code
30 – 25-42638	WC-025,G06 S263319P; BONE SPRING	97955

[7] Property Code	[8] Property Name	[9] Well Number
314914	SALADO DRAW 29 26 33 FED COM	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
C	29	26S	33E		200	NORTH	1333	WEST	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
F	32	26S	33E		479	SOUTH	1755	WEST	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	03/04/2016			

III. Oil and Gas Transporters

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

IV. Well Completion Data

[21] Spud Date	[22] Ready Date	[23] TD	[24] PBTD	[25] Perforations	[26] DHC, MC
10/04/2015	02/25/2016	16,489	16421	9578 – 16300'	

[27] Hole Size	[28] Casing & Tubing Size	[29] Depth Set	[30] Sacks Cement
17 ½"	13 3/8"	843	1005 SX
12 ¼"	9 5/8"	4755	460 SX
8 ¾"	5 ½"	16474	2219 SX
	2 7/8" TBG	8697'	

V. Well Test Data

[31] Date New Oil	[32] Gas Delivery Date	[33] Test Date	[34] Test Length	[35] Tbg. Pressure	[36] Csg. Pressure
03/04/2016	03/04/2016	06/04/2016	24 HRS	969	1127
[37] Choke Size	**[38] Oil**	**[39] Water**	**[40] Gas**		**[41] Test Method**
	359	1624	488		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: 08/31/2016

Phone: 432-687-7375

OIL CONSERVATION DIVISION

Approved by:

Title: Petroleum Engineer

Approval Date: 09/12/16

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMNM27506

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. SALADO DRAW 29 26 33 FED COM 003H

3. Address 6301 DEAUVILLE BLVD MIDLAND, TX 79706

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

9. API Well No. 30-025-42638

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface Sec 29 T26S R33E Mer NMP 200FNL 1333FWL
At top prod interval reported below Sec 32 T26S R33E Mer NMP Lot 3 479FSL 1755FWL
At total depth Sec 32 T26S R33E Mer NMP 479FSL 1755FWL

10. Field and Pool, or Exploratory BONE SPRING

11. Sec., T., R., M., or Block and Survey or Area Sec 29 T26S R33E Mer NMP

12. County or Parish LEA

13. State NM

14. Date Spudded 10/04/2015

15. Date T.D. Reached 11/10/2015

16. Date Completed ☐ D & A ☒ Ready to Prod. 02/26/2016

17. Elevations (DF, KB, RT, GL)* 3215 GL

18. Total Depth: MD 16489 TVD 9249

19. Plug Back T.D.: MD 16421 TVD

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CCL/GR/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 H-40	48.0		843		1005		0	
12.250	9.625 HCK-55	40.0		4755		460		0	
8.750	5.500 P-110	20.0		16474		2219		4270	

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	8697	8663						

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	BONE SPRING	9578	16300	9578 TO 16300			PRODUCING (DETAILED PERF IN
B)							
C)							
D)							

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

Depth Interval	Amount and Type of Material
9578 TO 163300	FRAC W/TOTAL SAND (SAND 100 & SAND 40/70) = 8,305,380 LBS (DETAILED INFO 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
03/04/2016	06/04/2016	24	→	359.0	488.0	1624.0			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
48/64	969	1127.0	→				1359	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 #349686 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
RUSTLER	770	3089	ANHYDRITE	RUSTLER	770
CASTILE	3090	4839	ANHYDRITE	CASTILE	3090
LAMAR	4840	4859	LIMESTONE	LAMAR	4840
BELL CANYON	4860	6251	SANDSTONE	BELL CANYON	4860
CHERRY CANYON	6252	7564	SANDSTONE	CHERRY CANYON	6252
BRUSHY CANYON	7565	9024	SANDSTONE	BRUSHY CANYON	7565
BONE SPRING LIME	9025	9055	LIMESTONE	BONE SPRING LIME	9025
UPPER AVALON	9056	16489	SHALE	UPPER AVALON	9056

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 #349686 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 08/31/2016

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)

HOBBS OCD

SEP 06 2016

RECEIVED

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.
NMNM27506

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.
SALADO DRAW 29 26 33 FED COM 3H

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

9. API Well No.
30-025-42638

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 29 T26S R33E Mer NMP 200FNL 1333FWL

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.)

10/04/2015: SPUD WELL @ 22:30 HRS. DRILL SURFACE HOLE TO 135'. NOTIFIED PAUL FLOWERS OF BLM @ 9:30 AM OF INTENT TO SPUD.
10/05/2015: DRILL 135-853. NOTIFIED PAUL FLOWERS OF BLM OF INTENT TO RUN CSG.
RAN 13 3/8",48#,H-40,STC SURFACE CSG SET @ 843.
CEMENT W/1005 SX (238 BBLS)CLASS C TAIL CMT @ 14.8PPG. CALC 126 BBLS. FULL RETURNS THROUGHOUT JOB. FINAL CIRC PRESS PRIOR TO BUMP PLUG 254 PSI @ 2 BPM. 485 SX OF CMT RETURNED TO SURFACE. CMT IN PLACE @ 23:30 HRS 10/06/2015.
10/26/2015: TEST BOPE TO 250 PSI LOW/5000 PSI HIGH (3500 PSI HIGH ON ANNULAR) TEST CSG TO 1200 PSI FOR 30 MINS-GOOD.
10/27/2015: DRILL 10' NEW FORMATION TO 853. DRILL 853-1056, 1630, 2050, 2535.
10/28/2015: DRILL INTERMEDIATE HOLE 2535-2784, 2961, 3215, 3475, 3802, 3942, 4118, 4469, 4720, 4765.

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #347798 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 08/15/2016

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 #347798 that would not fit on the form

32. Additional remarks, continued

10/30/2015: RAN 9 5/8" INTERMEDIATE CSG SET @ 4755'. NOTIFIED BLM OF INTENT TO RUN CSG ON 10/30/2015 @ 05:15 HRS.
CMT W/1082 SX LEAD @ 11.9PPG. MIX & PUMP 460 SX OF TAIL @ 14.8PPG. BUMP PLUG W/512 PSI OVER FINAL CIRC PRESS @ 1752PSI.FULL RETURNS THROUGHOUT JOB. FINAL CIRC PRESS PRIOR TO BUMP PLUG 1240 PSI @ 2.1BPM. 185 SX OF CMT RETURNED TO SURF. NOTIFIED BLM @ 11:00 HRS OF INTENT TO CMT INTER CSG.
10/31/2015: WOC PERF BLM REQUIREMENT. PRESS TEST CSG TO 2500PSI FOR 30 MINS. GOOD. WASH CMT 4667-TOP OF FC @ 4676. DRILL 10' NEW FORMATION TO 4766.
DRILL 8 3/4" VERTICAL SECTION 4766-4873, 5373, 6342, 7102, 7761, 8046, 8257, 8560, 8708, 8744, 8944, 9181, 94-3, 9525, 9737, 9852,10071, 10506, 11184, 11580, 12201, 12,378, 12775, 13176, 13548, 14063, 14068, 14427, 14773, 15305, 15752, 15925, 16489.
11/11/2015: RAN 5 1/2",20#,HCT-110, TENARIS XP BTC SET @ 16,474.
11/12/2015: CEMENT W/645SX & 1453 SX LEAD CMT & 121 SX TAIL CMT. GOOD RETURNS TO 240 BBLS DISPLACEMENT. LOST RETURNS @ 240 BBLS DISPLACEMENT. TEST TO 5000PSI FOR 15 MINS. GOOD.
RIG RELEASED @ 12:00 HRS 11/13/2015.

CASING AND CEMENTING SUMMARY ATTACHED.
DIRECTIONAL DRILL SURVEY ATTACHED.

Form 3160-5
(August 2007)

HOBBS OCD

SEP 06 2016

RECEIVED

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.
NMNM27506

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.
SALADO DRAW 29 26 33 FED COM 003H

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

9. API Well No.
30-025-42638

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 29 T26S R33E Mer NMP 200FNL 1333FWL

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:
01/30/2016: MIRU.
02/02/2016: TIH W/CBL TO 8844 WL TD. LOG CCL/GR/CBL TO SURF @ 60 FT/MIN, 1000 PSI. TOC @ 4270'.
02/04/2016: PRESS UP PROD CSG TO 9500 PSI FOR 30 MINS. GOOD.

02/06/2016 THROUGH 02/25/2016: PERF STAGE 1 THROUGH STAGE 23
9578 - 16,300' FRAC W/TOTAL SAND: (SAND 100 & SAND 40/70) = 8,305,380 lbs
*****Detailed perf & frac report attached*****

03/07/2016: TIH & SET PKR @ 8663' WLM.

04/11/2016: 2 7/8" TBG SET @ 8697'. CIRC 180 BBLS 8.4 PPG PKR FLUID @ 1.7 BPM @ 400 PSI.

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

Electronic Submission #349678 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 08/31/2016

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 #349678 that would not fit on the form

32. Additional remarks, continued

RIG DOWN. RELEASE RIG.

06/04/2016: ON 24 HR OPT. FLOWING 359 OIL, 488 GAS, 1624 WATER. GOR - 1359
TBG- 969 PSI, CSG - 1127 PSI. CHOKE: 48/64"

SALADO DRAW 29 26 33 FED COM #003H

PERF & FRAC INFORMATION

STAGE 1: 16178, 16118, 16058
6 spf, .41 dia hole. Pump down using 1251 bbls treat water @ 15bpm. Max press-8400psi.
PUMP STAGE 1:
Sand in formation 312,000lbs 132% Prime up & test lines to 9500psi.
Equalize/open well @ 900 psi. Avg Rate 84.1 bpm. Avg press:6035 psi.
Max Rate: 87.0 bpm Max Press:7668 psi. ISIP:1603 psi
Pump Time 121 mins Total clean fluid 8849 bbls Total slurry volume 9303 bbls
Sand pumped: Sand 100 – 32,000 lbs Sand 40/70 – 381,340 lbs TOTAL:413,340 lbs

STAGE 2: 15986, 15929, 15872, 15814, 15766
6 jspf, .41 dia hole. Pump down @ 13 bpm 1900 psi line tension before set 1703# 1538# after 589 bbls pmpd.
PUMP STAGE 2:
Sand in formation 419,850 lbs: 98% Test lines to 9500 psi.
Equalize/open well @ 930 psi. Avg Rate: 83.0bpm Avg Pressure 6796 psi
Max rate: 85.0bpm Max Pressure 7732 psi ISIP 1727 psi
Pump Time: 126 mins. Total clean fluid:8735 bbls Total Slurry volume:9179 bbls
Sand pumped: Sand 100 – 32,320 lbs, Sand 40/70: 378,680 lbs TOTAL: 411,00000 lbs

STAGE 3: 15698, 15638, 15578, 15518, 15458
6 jspf, .41 dia hole. Pump down @ 15 bpm. Line tension: 1745 psi before, 1630 psi after 434 bbls pmpd.
PUMP STAGE 3
Sand in formation 419,850lbs, 98% Prime up & test lines to 9500psi.
Equalize/open well @ 1156 psi. Ave Rate: 83.9 bpm Ave Pressure: 6493 psi
Max Rate: 85.0 bpm, Max Pressure: 7811 psi. ISIP:1855 psi.
Pump Time: 124 mins. Total clean fluid: 9046 bbls. Total slurry volume: 9517 bbls
Sand Pumped: Sand 100 – 32,000 lbs, Sand 40/70: 377,820 lbs. TOTAL: 409,820 lbs

STAGE 4: 15398, 15338, 15278, 15218, 15158
6 JSPF, .41 dia hole. Pump dn @ 15 bpm. Line tension before set 1660 psi & 1555 after. Max press of 1730 psi w/423 bbls pumped.
PUMP STAGE 4:
Sand in formation 419,850lbs, 97% Prime up & test lines to 9500psi.
Equalize/open well @ 1133 psi. Avg Rate: 84.7 bpm, Avg Pressure: 5904 psi.
Max Rate: 86.0 bpm, Max Pressure: 7178 psi. ISIP:1991 psi.
Pump Time: 128 mins. Total clean fluid: 8638 bbls, Total slurry volume: 9094 bbls
Sand pumped: Sand 100: 30,000 lbs, Sand 40/70L 387,350 lbs, TOTAL: 408,000 lbs

STAGE 5: 15098, 15038, 14978, 14918, 14858
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Line tension before set 1698 psi, & 1586 after. Max pressure of 2120 psi w/427 bbls pumped.
PUMP STAGE 5:
Sand in formation: 419,850 lbs, 97%, Prime up & test lines to 9500psi.
Equalize/open well @ 1033 psi. Ave Rate: 84.5 bpm, Avg pressure: 6090 psi

Max Rate: 85.5 bpm, Max Pressure: 7108 psi. ISIP: 2103 psi.
Pump Time: 132 mins. Total clean fluid: 8911 bbls, Total Slurry volume: 9375 bbls
Sand pumped: Sand 100: 30,420 lbs, Sand 40/70: 374,820 lbs, TOTAL: 405,240 lbs

STAGE 6: 14796, 14738, 14682, 14618, 14558
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Line tension before set 1600 psi, & 1500 after. Max Pressure of 2420 psi w/381 bbls pumped.
PUMP STAGE 6:
Sand in formation: 419,850 lbs, 98%. Prime up & test lines to 9500 psi.
Equalize/open well @ 1255 psi. Ave Rate:84.5 bpm, Ave Pressure: 5932 psi.
Max rate: 85.0 bpm, Max Pressure: 7225 psi. ISIP: 2145 psi.
Pump time: 132 mins. Total clean fluid: 8521 bbls, Total Slurry volume: 8962 bbls
Sand pumped: sand 100: 30,180 lbs, sand 40/70: 380,540 lbs. TOTAL: 410,720 lbs

STAGE 7: 14498, 14438, 14378, 14318, 14258
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Line tension before set 1566 psi & 1430 after. Max pressure of 2648 psi w/328 bbls pumped.
PUMP STAGE 7:
Sand in formation: 419,850 lbs, 105%, Prime up & test lines to 9500 psi.
Equalize/open hole @ 1384 psi. Ave rate: 85.1 bpm, Ave Pressure: 5887 psi
Max rate: 85.0 bpm, Max Pressure: 6591 psi. ISIP: psi.
Pump time: 123 mins. Total clean fluid: 8724 bbls, Total slurry volume: 9173 bbls.
Sand Pumped: Sand 100: 31,220 lbs, Sand 40/70: 407,720 lbs, TOTAL: 438,940 lbs

STAGE 8: 14198, 14138, 14078, 14018, 13958
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Line tension before set 1425 psi, & 1350 after. Max pressure of 2385 psi w/324 bbls pumped.
PUMP STAGE 8:
Sand in formation: 419850 lbs, 96%, Prime up & test lines to 9500 psi.
Equalize/open hole @ 1595 psi. Ave Rate: 85.0 bpm, Ave pressure: 6010 psi
Max Rate: 86.0 bpm, Max pressure: 7385 psi. ISIP: 2203 psi.
Pump time: 126 mins. Total clean fluid: 8639 bbls, Total slurry volume: 9105 bbls
Sand pumped: Sand 100: 32,940 lbs, Sand 40/70: 370,400 lbs. TOTAL 401,340 lbs

STAGE 9: 13898, 13838, 13774, 13718, 13654
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Line tension before set 1624 psi & 1402 after. Max pressure of 2448 psi w/367 bbls pumped.
PUMP STAGE 9:
Sand in Formation: 419,850 lbs, 99% Prime up & test lines to 9500 psi.
Equalize/open well @ 1384 psi. Ave Rate: 85.4 bpm, Ave Pressure: 5998 psi.
Max rate: 86.5 bpm, Max pressure: 7123 psi. ISIP: 2246 psi.
Pump time: 125 mins. Total Clean fluid: 8953 bbls, Total slurry volume: 9420 bbls
Sand pumped: Sand 100: 32,500 lbs, Sand 40/70: 384,480 lbs. TOTAL: 416,980 lbs

STAGE 10: 13598, 13534, 13478, 13418, 13358
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Line tension before set 1490 lbs & 13400 after. Max press of 2601 psi w/295 bbls pumped.
PUMP STAGE 10:

Sand in formation: 419,850 lbs, 96% Prime up and test lines to 9500 psi.
Equalize/open well @ 1398 psi. Ave Rate: 83.0 bpm, Ave Pressure: 6651 psi.
Max Rate: 87.0 bpm, Max pressure: 7904 psi. ISIP: 2106 psi.
Pump time: 127 mins. Total clean fluid: 8876 bbls, Total slurry volume: 9333 bbls
Sand pumped: Sand 100: 30,000 lbs, Sand 40/70: 375,020 lbs. TOTAL 405,020 lbs

STAGE 11: 13296, 13238, 13174, 13118, 13062
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Line tension before set 1450 psi & 1270 after. Max Press 2900 psi w/263 bbls pumped.
PUMP STAGE 11:
Sand in formation: 419,850 lbs, 98%, Prime up and test lines to 9500 psi.
Equalize/open well @ 1148 psi. Ave Rate: 83.7 bpm. Ave Pressure: 6039 psi.
Max rate: 85.7 bpm, Max pressure: 6848 psi. ISIP: 2121 psi.
Pump time: 127 mins. Total clean fluid: 9008 bbls, total slurry volume 9478 bbls.
Sand pumped: Sand 100: 32,580 lbs, Sand 40/70: 379,920 lbs, TOTAL: 412,500 lbs

STAGE 12: 12998, 12938, 12878, 12818, 12758
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Line tension before set 1507 lbs & 1300 after. Max Pressure of 2472 psi w/281 bbls pmped.
PUMP STAGE 12:
Sand in formation: 419,850 lbs, 97% Prime up and test lines to 9500 psi.
Equalize/open well @ 1362 psi. Ave Rate: 85.0 bpm, Ave pressure: 5840 psi
Max rate: 87.0 bpm, Max pressure: 7006 psi, ISIP: 1960 psi.
Pump time: 126 mins, Total clean fluid: 8508 bbls, Total slurry volume: 8941 bbls.
Sand pumped: Sand 100: 30,000 lbs, Sand 40/70: 377,260 lbs, TOTAL: 407,260 lbs.

STAGE 13: 12698, 12638, 12578, 12518, 12458
6 JSPF, .41 dia holle. Pump dn @ 12 bpm. Line tension before set 1480 psi & 1310 after. Max pressure of 2150 psi w/253 bbls pumped.
PUMP STAGE 13:
Sand in formation: 419,850 lbs, 96%, Prime up & test lines to 9500 psi.
Equalize/open well @ 1305 psi. Ave Rate: 83.2 bpm, Ave Pressure: 6662 psi.
Max Rate: 84.7 bpm, Max Pressure: 7358 psi. ISIP: 2217 psi.
Pump time: 120 mins. Total clean fluid: 8634 bbls, Total slurry volume: 9082 bbls.
Sand pumped: Sand 100: 31,000 lbs, Sand 40/70: 372,280 lbs TOTAL: 403,280 lbs

STAGE 14: 12398, 12338, 12278, 12218, 12158
6 JSPF, .41 dia hole. Pump down @ 15 bpm. Line tension before set 1550 lbs & 1350 after. Max press of 1981 psi w/208 bbls pumped.
PUMP STAGE 14:
Sand in formation: 419,850 lbs 97%. Prime up & test lines to 9500 psi.
Equalize/open hole W 1051 psi. Ave rate: 82.0 bpm, Ave Press: 5359 psi
Max Rate: 86.0 bpm, Max pressure: 7528 psi. ISIP: 2425 psi.
Pump time: 148 mins. Total clean fluid: 9623 bbls, Total slurry volume: 10,096 bbls.
Sand pumped: Sand 100: 32,580 lbs, Sand 40/70: 372,680 lbs, TOTAL 405,260 lbs.

STAGE 15: 12098, 12038, 11978, 11916, 11858

6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Line tension before set 1340 psi & 1190 after. Max press 2198 psi @ 182 bbls pumped.

PUMP STAGE 15:

Sand in formation: 419850 lbs, 100%. Prime up & test lines to 9500 psi.
Equalize/open well @ 1000 psi. Ave Rate: 81.8 bpm, Ave Pressure: 5282 psi.
Max Rate: 83.1 bpm, Max pressure: 6028 psi, ISIP:1945 psi.
Pump time 134 mins, Total clean fluid: 8692 bbls, Total slurry volume: 9140 bbls
Sand pumped: Sand 100: 34,000 lbs, Sand 40/70: 385,620 lbs, TOTAL 419,620 lbs

STAGE 16: 11798, 11738, 11681, 11618, 11558

6 JSPF, .41 dia hole. Pump dn @ 15 bpm. Line tension before set 1353 lbs & 1170 after. Max press 1898 psi w/169 bbls pumped.

PUMP STAGE 16:

Sand in formation: 419,850 lbs, 101%, Prime up & test lines to 9500 psi.
Equalize/open well @ 805 psi. Ave Rate: 85.0 bpm, Ave Press: 5186 psi.
Max rate: 86.0 bpm, Max Pressure: 7128 psi. ISIP: 1710 psi.
Pump time: 124 mins. Total clean fluid: 8400 bbls, Total Slurry volume: 8822 bbls.
Sand pumped: Sand 100: 30,000 lbs, Sand 40/70: 393,280 lbs, TOTAL 423,280 lbs

STAGE 17: 11498, 11438, 11378, 11318, 11258

6 JSPF, .41 dia hole. Pump dn @ 15 bpm. Line tension before set 1430 lbs & 1215 after. Max press of 1667 psi w/153 bbls pumped.

PUMP STAGE 17:

Sand in formation: 419,850 lbs 101% Prime up & test lines to 9500 psi.
Equalize/open well @ 933 psi. Ave Rate: 85.0 bpm, Avg Pressure: 5419 psi.
Max Rate: 87.0 bpm, Max pressure: 6824 psi. ISIP: 2121 psi.
Pump time 127 mins, Total clean fluid: 8956 bbls, Total slurry volume: 9435 bbls
Sand pump: Sand 100: 31,000 lbs, Sand 40/70: 393,520 lbs, TOTAL: 424,520 lbs

STAGE 18: 11198, 11138, 11078, 11018, 10958

6 JSPF, .41 dia hole. Pump dn @ 15 bpm. Line tension before set 1370 lbs & 1180 lbs after. Max press of 1924 psi w/139 bbls pumped.

PUMP STAGE 18:

Sand in formation: 419,850 lbs 100% Prime up & test lines to 9500 psi.
Equalize/open well @ 1076 psi. Ave rate: 87.0 bpm, Avg Pressure: 5801 psi
Max rate: 89.0 bpm, Max Pressure: 7138 psi, ISIP: 1985 psi.
Pump time: 116 mins. Total clean fluid: 8376 bbls, Total slurry volume: 8802 bbls.
Sand pumped: Sand 100: 32,640 lbs, Sand 40/70: 388,140 lbs, TOTAL: 420,780 lbs

STAGE 19: 10898, 10838, 10778, 10718, 10658

6 JSPF, .41 dia hole. Pump dn @ 15 bpm. Line tension before set 1330 lbs & 1130 after. Max press 1283 psi w/122 bbls pumped.

PUMP STAGE 19:

Sand in formation: 419,850 lbs 101%, Prime up & test lines to 9500 psi.
Equalize/open well @ 1151 psi. Ave rate: 85.9 bpm, Ave pressure: 5538 psi.
Max rate: 87.0 bpm, Max pressure: 6480 psi. ISIP: 2371 psi.
Pump time: 128 mins. Total clean fluid: 9386 bbls, Total slurry volume: 9899 bbls.
Sand pumped: Sand 100: 30,680 lbs, Sand 40/70: 383,580 lbs, TOTAL: 424,260 lbs

STAGE 20: 10598, 10535, 10478, 10421, 10358
6 JSPF, .41 dia hole. Pump dn @ 15 bpm. Line tension before set 1328 lbs & 1108 lbs after. Max press of 2328 psi w/110 bbls pumped.
PUMP STAGE 20:
Sand in formation: 419,850 lbs 101% Prime up and test lines to 9500 psi.
Equalize/open well @ 1269 psi. Ave rate: 83.3 bpm, Ave pressure: 5575 psi.
Max rate: 84.0 bpm, Max pressure: 6212 psi. ISIP: 2140 psi.
Pump time: 130 mins, Total Clean fluid: 9420 bbls, Total slurry volume: 9929 bbls.
Sand pumped: Sand 100: 31,000 lbs, Sand 40/70: 394,040 lbs, TOTAL 425,040 lbs

STAGE 21: 10299, 10238, 10178, 10118, 10058
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Line tension before set 1305 lbs & 1120 after. Max press of 2050 psi w/80 bbls pumped.
PUMP STAGE 21:
Sand in formation: 419,850 lbs, 101% Prime up and test lines to 9500 psi.
Equalize/open well @ 1327 psi. Ave rate: 84.8 bpm, Ave Pressure: 5205 psi.
Max rate: 85.4 bpm, Max pressure: 6288 psi. ISIP: 2287 psi.
Pump time: 131 mins. Total clean fluid: 9053 bbls, Total slurry volume: 9561 bbls
Sand pumped: Sand 100: 32,000 lbs, Sand 40/70: 390,700 lbs, TOTAL: 422,700 lbs

STAGE 22: 9998, 9940, 9878, 9820, 9758
6 JSPF. Pump dn @ 12 bpm. Line tension before set @ 1300 lbs & 1150 after. Max press of 2267 psi w/63 bbls pumped.
PUMP STAGE 22:
Sand in formation: 419,850 lbs 100%, Prime up & test lines to 9500 psi.
Equalize/open well @ 1398 psi. Ave Rate: 83.1 bpm, Ave pressure: 5077 psi.
Max rate: 85.2 bpm, Max pressure: 6329 psi. ISIP: 2192 psi.
Pump time: 127 mins. Total clean fluid: 9168 bbls, Total slurry volum: 9667 bbls
Sand pumped: Sand 100: 30,460 lbs, Sand 40/70: 390,080 lbs, TOTAL: 420,540 lbs

STAGE 23: 9700, 9638, 9578
6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Line tension before set 1190 lbs & 1030 after. Max press 1909 psi w/44 bbls pumped.
PUMP STAGE 23:
Sand in formation: 419,850 lbs 100%, Prime up & test lines to 9500 psi.
Equalize/open well @ 1623 psi. Ave Rate: 86.0 bpm, Ave Pressure: 6126 psi.
Max Rate: 86.6 bpm, Max pressure: 7285 psi. ISIP: 2482 psi.
Pump time: 138 mins. Total clean fluid: 9225 bbls, Total slurry volume: 9733 bbls
Sand Pumped: Sand 100: 34,040 lbs, Sand 40/70: 387,640 lbs, TOTAL: 421,680 lbs.