

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM27506

RECEIVED

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: leajejd@chevron.com

8. Lease Name and Well No.
SD EA 19 FEDERAL P6 005H

3. Address **6301 DEAUVILLE BLVD
MIDLAND, TX 79706** 3a. Phone No. (include area code)
Ph: 432-687-7375

9. API Well No. **30-025-42797**

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface **227FNL 1747FEL**
 At top prod interval reported below **404FSL 2249FEL**
 At total depth **404FSL 2249FEL**

10. Field and Pool, or Exploratory
BONE SPRING
 11. Sec., T., R., M., or Block and Survey
or Area **Sec 19 T26S R33E Mer NMP**
 12. County or Parish
LEA 13. State
NM

14. Date Spudded **01/30/2016** 15. Date T.D. Reached **03/16/2016** 16. Date Completed
 D & A Ready to Prod.
05/16/2016

17. Elevations (DF, KB, RT, GL)*
3205 GL

18. Total Depth: MD **13928** 19. Plug Back T.D.: MD **13865** 20. Depth Bridge Plug Set: MD
 TVD **9160** TVD **3765** 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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J-55	54.5		838		1006		0	
12.250	9.625 HCK-55	40.0		4745		1525		0	
8.750	5.500 HCP-110	20.0		13915		1614		3760	

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	8680	8657						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	9425	13702	9425 TO 13702			PRODUCING ***DETAILED PERF
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
9425 TO 13702	FRAC W/TOTAL SAND (100 MESH & 40/70) = 6,015,341 LBS ***DETAILED 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
06/27/2016	07/18/2016	24	→	798.0	1998.0	410.0			FLOWS FROM WELL
Choke Size	Tbg. Press Flwg	Csg. Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
34/64	SI	908	→				2504	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
			→					
Choke Size	Tbg. Press Flwg	Csg. Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Sta
	SI		→					

Pending BLM approvals will subsequently be reviewed and scanned

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

ELECTRONIC SUBMISSION #352097 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	710	2939	ANHYDRITE, HALITE	RUSTLER	710
CASTILE	2940	4749	ANHYDRITE	CASTILE	2940
LAMAR	4750	4769	LIMESTONE	LAMAR	4750
BELL CANYON	4770	5859	SANDSTONE	BELL CANYON	4770
CHERRY CANYON	5860	7509	SANDSTONE	CHERRY CANYON	5860
BRUSHY CANYON	7510	8964	SANDSTONE	BRUSHY CANYON	7510
BONE SPRING LIME	8965	9024	LIMESTONE	BONE SPRING LIME	8965
UPPER AVALON	9025	13928	SHALE	UPPER AVALON	9025

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 #352097 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 09/22/2016

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

HOBBS OCD

SEP 26 2016

RECEIVED

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.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM27506
2. Name of Operator CHEVRON U.S.A. INC.		6. If Indian, Allottee or Tribe Name
3a. Address 6301 DEAUVILLE BLVD MIDLAND, TX 79706		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 432-687-7375		8. Well Name and No. SD EA 19 FEDERAL P6 005H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 19 T26S R33E Mer NMP 227FNL 1747FEL		9. API Well No. 30-025-42797
		10. Field and Pool, or Exploratory BONE SPRING
		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			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Production Start-up
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recompleat 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 recompleat 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:

04/20/2016: MIRU.
 04/22/2016: TIH W/DBL FR 9384' TO SURF @ 80 FT/MIN W/0 PSI ON WELL.
 04/24/2016: PRESS TEST-750 PSI LOW, 9800 PSI HIGH, 15 MINS. GOOD TEST.
 ESTAB INJECTION RATE. TOTAL BBLs PUMPED 90 BBLs. SIP - 2700 PSI.

 05/02/2016 THROUGH 05/16/2016: PERF STAGE 1 THROUGH STAGE 14. 9425 -13702
 FRAC W/TOTAL SAND: (100 MESH & 40/70) = 6,015,341 LBS.
 *****DETAILED PERF & FRAC REPORT ATTACHED*****

 05/23/2016: TEST EQPT TO 4000 PSI. TIH W/GR/JB TO KOP @ 8703'.
 06/03/2016: TEST BLINDS & PIPE RAMS 250 LOW/4500 HIGH FOR 5 MINS. GOOD.

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

**Electronic Submission #351919 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 09/20/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____
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 _____

Pending BLM approvals will
subsequently be reviewed
and scanned

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 States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Department or agency of the United

Additional data for EC transaction #351919 that would not fit on the form

32. Additional remarks, continued

06/06/2016: TIH W/2 7/8" TBG SET @ 8680. PKR @ 8657'. TAG PKR. BTM OF PKR @ 8664'.

06/07/2016: RIG DOWN. RELEASE RIG.

07/18/2016: ON 24 HR OPT. FLOWING 798 OIL, 1998 GAS, & 410 WATER.
GOR - 2504

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD

SEP 26 2016

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

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9. API Well No. 30-025-42797
10. Field and Pool, or Exploratory BONE SPRING
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SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator CHEVRON U.S.A. INC. Contact: DENISE PINKERTON E-Mail: leakejd@chevron.com	
3a. Address 6301 DEAUVILLE BLVD MIDLAND, TX 79706	3b. Phone No. (include area code) Ph: 432-687-7375
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 19 T26S R33E Mer NMP 227FNL 1747FEL	

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<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Drilling Operations
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recompleate 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 recompleation 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.)

01/30/2016: SPUD WELL. DRILL SURFACE HOLE FR 112-170, 560, 847.

01/31/2016: RUN 13 3/8", 54.5#, J-55 STC CSG SET @ 838'. TAG BTM @ 847. FC @ 796. NOTIFIED PAUL FLOWERS, BLM, OF INTENT TO RUN SURF CSG. PRESS TEST LINES TO 3469 PSI. PMP 40 BBLS SPACER @ 8.3 PPG. MIX & PUMP 1006 SX CMT @ 14.8PPG. DISPL W/123 BBLS OF 8.3PPG FW. BUMP PLUG W/543 PSI OVER FINAL CIRC PRESS. FULL RETURNS THROUGHOUT JOB. FINAL CIRC PRESS PRIOR TO BUMPING PLUG 324 PSI @ 2.1BPM. 120 BBLS OF CMT TO SURF.

03/04/2016: TEST BOPE TO 250 PSI LOW/5000 PSI HIGH.
03/05/2016: TEST SURF CSG TO 1500 PSI FOR 30 MINS. GOOD.
DRILL 859-1396, 2178, 2621, 3153, 3785, 4326, 4755.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #351893 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 09/20/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____
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**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Additional data for EC transaction #351893 that would not fit on the form

32. Additional remarks, continued

03/07/2016: RAN 9 5/8" INTERMEDIATE CSG SET @ 4745'. FC @ 4670.
PRESS TEST LINES TO 500 PSI LOW & 3000 PSI HIGH. PMP 35 BBLS DYED FW SPACER.
MIX & PUMP 1064 SX LEAD @ 11.9PPG. MIX & PUMP 460 SX TAIL @ 14.8PPG.
BUMP PLUG W/500 PSI OVER FINAL CIRC PRESS @ 1794 PSI. HELD FOR 5 MINS. FULL RETURNS THROUGHOUT JOB.
FINAL CIRC PRESS PRIOR TO BUMPING PLUG 1294 PSI @ 2.9BPM. 517 SX OF CMT RETURNED TO SURFACE. CMT
IN PLACE @ 15:14 HRS.WOC 8 HRS.

03/08/2016: DRILL 10' NEW FORMATION TO 4765, 6313, 7155, 7684, 7910, 8409, 8703, 8939, 9112, 9247,
9424, 9526, 9791, 10083, 10677, 11164, 11828, 12006, 12164, 12450, 12716, 12761, 13476, 13515,
13928. (TD REACHED ON 03/16/2016)

03/17/2016: RAN 5 1/2" 20# HCP-110 TXP BTC PRODUCTION CSG SET @ 13,915'. LC @ 13,823, RSI TOOL @
13755', MARKER JOINT @ 8619'.
PRESS TEST 500 PSI LOW, 5000 PSI HIGH.
03/18/2016: CMT W/621 SX 50:50 POZ H, 870 SX TX1 LEAD, & 123 SX CL H TAIL.
FINAL CIRC PRESS - 2443 PSI @ 3.8 BBL MIN. BUMP PLUG PRESS - 2981 PSI @ 1.9 BBL/MIN. GOOD RETURNS
THROUGHOUT JOB. 15 BBL SPACER BACK TO SURF. CMT IN PLACE @ 16:30 HRS. TOC @ 3760'.

03/19/2016: RELEASE RIG.

SD EA 19 FED P6 #005H

PERF & FRAC INFORMATION

STAGE 1: 13700, 13665, 13605, 13545, 13485

6 spf, .41 dia hole.

PUMP STAGE 1:

Sand in formation 419,808 lbs 100% Prime up & test lines to 9500psi.
Equalize/open well @ 1399 psi. Avg Rate 88.3 bpm. Avg press:5644 psi.
Max Rate: 90.3 bpm Max Press:8868 psi. ISIP:1880 psi
Pump Time 115 mins Total clean fluid 8932 bbls Total slurry volume 9383 bbls
Sand pumped: Sand 100 – 33,056 lbs Sand 40/70 – 385,873 lbs TOTAL:418,929 lbs

STAGE 2: 13425, 13375, 13300, 13245, 13200

6 jspf, .41 dia hole. Total bbls pmpd: 313 bbls, max pressure 2378 psi

PUMP STAGE 2:

Sand in formation 419,808 lbs: 100% Test lines to 9500 psi.
Equalize/open well @ 1388 psi. Avg Rate: 88.9 bpm Avg Pressure 5824 psi
Max rate: 89.4 bpm Max Pressure 8173 psi ISIP 2068 psi
Pump Time: 146 mins. Total clean fluid:8981 bbls Total Slurry volume:9433 bbls
Sand pumped: Sand 100 – 32,344 lbs, Sand 40/70: 387,468 lbs TOTAL: 419,812 lbs

STAGE 3: 13125, 13055, 13005, 12945, 12885

6 jspf, .41 dia hole. Total bbls pmpd: 260 bbls. Max pressure: 2223 psi

PUMP STAGE 3

Sand in formation 419,808 lbs, 100% Prime up & test lines to 9500psi.
Equalize/open well @ 1418 psi. Ave Rate: 85.8 bpm Ave Pressure: 6076 psi
Max Rate:90.7 bpm, Max Pressure: 8900 psi. ISIP: 2120 psi.
Pump Time: 113 mins. Total clean fluid: 11,753 bbls. Total slurry volume:12,204 bbls
Sand Pumped: Sand 100 –32,716 lbs, Sand 40/70:386,503 lbs. TOTAL: 419,219 lbs

STAGE 4: 12825, 12755, 12705, 12645, 12586

6 JSPF, .41 dia hole. Max press of 2193 psi w/258 bbls pumped.

PUMP STAGE 4:

Sand in formation 419,808 lbs, 100% Prime up & test lines to 9500 psi.
Equalize/open well @ 1593 psi. Avg Rate: 89.7 bpm, Avg Pressure: 5592psi.
Max Rate: 90.5 bpm, Max Pressure: 8276 psi. ISIP:2220 psi.
Pump Time: 113 mins. Total clean fluid: 9029 bbls, Total slurry volume: 9480 bbls
Sand pumped: Sand 100: 32,597 lbs, Sand 40/70L 387,098 lbs, TOTAL: 419,695 lbs

STAGE 5: 12525, 12465, 12405, 12330, 12285

6 JSPF, .41 dia hole. Pump dn @ 12 bpm. . Max pressure of 2263 psi w/240 bbls pumped.

PUMP STAGE 5:

Sand in formation: 419,808 lbs, 100%, Prime up & test lines to 9500psi.
Equalize/open well @1666 psi. Ave Rate: 85.7 bpm, Avg pressure:5972 psi
Max Rate:86.1 bpm, Max Pressure: 8232 psi. ISIP: 2354 psi.
Pump Time: 120 mins. Total clean fluid:8835 bbls, Total Slurry volume:9288 bbls
Sand pumped: Sand 100:30,832 lbs, Sand 40/70:389,871 lbs, TOTAL: 420,703 lbs

STAGE 6: 12180, 12135, 12075, 12005, 11955

6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max Pressure of 3049 psi w/235 bbls pumped.

PUMP STAGE 6:

Sand in formation: 470,016 lbs, 100%. Prime up & test lines to 9500 psi.

Equalize/open well @ 1862 psi. Ave Rate:88.8 bpm, Ave Pressure: 5509 psi.

Max rate:91.0 bpm, Max Pressure:8131 psi. ISIP:2255 psi.

Pump time:132 mins. Total clean fluid: 10,001 bbls, Total Slurry volume:10,508 bbls

Sand pumped: sand 100:32,450 lbs, sand 40/70:438,489 lbs. TOTAL:470,939 lbs

STAGE 7: 11850, 11775, 11691, 11625, 11565

6 JSPF, .41 dia hole. Pump dn @ 12 bpm. . Max pressure of 2214 psi w/185 bbls pumped.

PUMP STAGE 7:

Sand in formation: 470,016 lbs,100 %, Prime up & test lines to 9500 psi.

Equalize/open hole @1922 psi. Ave rate:86.5 bpm, Ave Pressure:5132 psi

Max rate: 87.0 bpm, Max Pressure:8255 psi. ISIP: 2290 psi.

Pump time:118 mins. Total clean fluid:9852 bbls, Total slurry volume:10,360 bbls.

Sand Pumped: Sand 100: 32,569 lbs, Sand 40/70: 439,144 lbs, TOTAL:471,713 lbs

STAGE 8: 11500, 11455, 11375, 11300, 11221

6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max pressure of 2306 psi w/174 bbls pumped.

PUMP STAGE 8:

Sand in formation: 470,316 lbs, 100%, Prime up & test lines to 9500 psi.

Equalize/open hole @ 1796 psi. Ave Rate: 85.5 bpm, Ave pressure: 5501 psi

Max Rate: 85.7 bpm, Max pressure: 7866 psi. ISIP: 2267 psi.

Pump time: 118 mins. Total clean fluid: 9940 bbls, Total slurry volume: 10,447 bbls

Sand pumped: Sand 100: 33,161 lbs, Sand 40/70: 437,875 lbs. TOTAL 471,036 lbs

STAGE 9: 11130, 11075, 11011, 10950, 10915

6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max pressure of 1397 psi w/167 bbls pumped.

PUMP STAGE 9:

Sand in Formation: 419,808 lbs, 100% Prime up & test lines to 9500 psi.

Equalize/open well @ 1740 psi. Ave Rate: 85.0 bpm, Ave Pressure: 5730 psi.

Max rate: 90.0 bpm, Max pressure: 7818 psi. ISIP: 2114 psi.

Pump time: 118 mins. Total Clean fluid: 8861 bbls, Total slurry volume: 9314 bbls

Sand pumped: Sand 100: 32,609 lbs, Sand 40/70: 387,855 lbs. TOTAL: 420,464 lbs

STAGE 10: 10855, 10815, 10775, 10735, 10695

6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max press of 3185 psi w/121 bbls pumped.

PUMP STAGE 10:

Sand in formation: 299,975 lbs, 100% Prime up and test lines to 9500 psi.

Equalize/open well @ 1901 psi. Ave Rate: 84.8 bpm, Ave Pressure: 5842 psi.

Max Rate: 86.1 bpm, Max pressure: 8443 psi. ISIP: 2419 psi.

Pump time: 118 mins. Total clean fluid: 6652 bbls, Total slurry volume: 6975 bbls

Sand pumped: Sand 100: 21,012 lbs, Sand 40/70: 278,896 lbs. TOTAL 299,908 lbs

STAGE 11: 10635, 10565, 10500, 10435, 10368

6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max Press 2981 psi w/120 bbls pumped.

PUMP STAGE 11:

Sand in formation: 470,016 lbs, 100%, Prime up and test lines to 9500 psi.
Equalize/open well @ 1867 psi. Ave Rate: 84.9 bpm. Ave Pressure: 5516 psi.
Max rate: 85.6 bpm, Max pressure: 8341 psi. ISIP: 2372 psi.
Pump time: 118 mins. Total clean fluid: 9836 bbls, total slurry volume 10,343 bbls.
Sand pumped: Sand 100: 32,583 lbs, Sand 40/70: 438,322 lbs, TOTAL: 470,905 lbs

STAGE 12: 10310, 10245, 10180, 10115, 10050

6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max Pressure of 2515 psi w/98 bbls pmped.

PUMP STAGE 12:

Sand in formation: 470,016 lbs, 100% Prime up and test lines to 9500 psi.
Equalize/open well @ 1997psi. Ave Rate: 85.0 bpm, Ave pressure: 5475 psi
Max rate: 85.0 bpm, Max pressure: 7975 psi, ISIP: 2319 psi.
Pump time: 126 mins, Total clean fluid: 9777 bbls, Total slurry volume: 10,283 bbls.
Sand pumped: Sand 100: 32,541 lbs, Sand 40/70: 437,797 lbs, TOTAL: 470,338 lbs.

STAGE 13: 9990, 9925, 9860, 9795, 9730

6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max pressure of 2417 psi w/74 bbls pumped.

PUMP STAGE 13:

Sand in formation: 470,016 lbs, 100%, Prime up & test lines to 9500 psi.
Equalize/open well @ 1981 psi. Ave Rate: 85.0 bpm, Ave Pressure: 5197 psi.
Max Rate: 85.7 bpm, Max Pressure: 8153 psi. ISIP: 2473 psi.
Pump time: 72 mins. Total clean fluid: 9821 bbls, Total slurry volume: 10,329 bbls.
Sand pumped: Sand 100: 32,918 lbs, Sand 40/70: 438,808 lbs TOTAL: 471,726 lbs

STAGE 14: 9670, 9600, 9530, 9475, 9425

6 JSPF, .41 dia hole. Pump down @ 15 bpm. Max press of 2615 psi w/65 bbls pumped.

PUMP STAGE 14:

Sand in formation: 370,050 lbs 100%. Prime up & test lines to 9500 psi.
Equalize/open hole W 1872 psi. Ave rate: 85.0 bpm, Ave Press: 5367 psi
Max Rate: 86.0bpm, Max pressure: 8092 psi. ISIP: 2767 psi.
Pump time: 111 mins. Total clean fluid: 8001 bbls, Total slurry volume: 8399 bbls.
Sand pumped: Sand 100: 23,789 lbs, Sand 40/70: 345,265 lbs, TOTAL 370,054 lbs.