

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

Form C-104  
Revised August 1, 2011

HOBBS OCD

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator name and Address CHEVRON U.S.A. INC. 15 SMITH ROAD MIDLAND, TEXAS 79705		<sup>2</sup> OGRID Number 4323
		<sup>3</sup> Reason for Filing Code/ Effective Date NEW WELL EFFECTIVE 06/2016
<sup>4</sup> API Number 30 - 25-42795	<sup>5</sup> Pool Name WC-025,G06 S263319P; BONE SPRING	<sup>6</sup> Pool Code 97955
<sup>7</sup> Property Code 315269	<sup>8</sup> Property Name SD EA 18 FEDERAL P6	<sup>9</sup> Well Number 005H

II. <sup>10</sup> Surface Location

UL or lot no. B	Section 19	Township 26S	Range 33E	Lot Idn	Feet from the 266	North/South Line NORTH	Feet from the 1778	East/West line EAST	County LEA
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<sup>11</sup> Bottom Hole Location

UL or lot no. B	Section 18	Township 26S	Range 33E	Lot Idn	Feet from the 374	North/South line NORTH	Feet from the 2312	East/West line EAST	County LEA
<sup>12</sup> Lse Code FEDERAL	<sup>13</sup> Producing Method Code FLOWING	<sup>14</sup> Gas Connection Date 06/27/2016	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date				

III. Oil and Gas Transporters


<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> O/G/W
	WESTERN PIPELINE	OIL
	ANADARKO	GAS

IV. Well Completion Data

<sup>21</sup> Spud Date 01/27/2016	<sup>22</sup> Ready Date 05/16/2016	<sup>23</sup> TD 14,214	<sup>24</sup> PBTD 14,115	<sup>25</sup> Perforations 9619 - 14,015	<sup>26</sup> DHC, MC
<sup>27</sup> Hole Size 17 1/2"	<sup>28</sup> Casing & Tubing Size 13 3/8"	<sup>29</sup> Depth Set 851	<sup>30</sup> Sacks Cement 1006 SX		
12 1/4"	9 5/8"	4721	1527 SX		
8 3/4"	5 1/2"	14,204	1691 SX		
	2 7/8" TBG	8776'			

V. Well Test Data

<sup>31</sup> Date New Oil 06/27/2016	<sup>32</sup> Gas Delivery Date 06/27/2016	<sup>33</sup> Test Date 07/25/2016	<sup>34</sup> Test Length 24 HRS	<sup>35</sup> Tbg. Pressure 807	<sup>36</sup> Csg. Pressure 500
<sup>37</sup> Choke Size 32/64	<sup>38</sup> Oil 684	<sup>39</sup> Water 390	<sup>40</sup> Gas 1461		<sup>41</sup> Test Method FLOWING

<sup>42</sup> 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: 		OIL CONSERVATION DIVISION	
Printed name: DENISE PINKERTON		Approved by: 	
Title: REGULATORY SPECIALIST		Title: Petroleum Engineer	
E-mail Address: Leakejd@chevron.com		Approval Date: 09/19/16	
Date: 09/07/2016	Phone: 432-687-7375		



HOBBS OCD

Form 3160-4  
(August 2007)

SEP 12 2018

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM 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: leajejd@chevron.com

8. Lease Name and Well No.  
SD EA 18 FED P6 005H

3. Address  
6301 DEAUVILLE BLVD  
MIDLAND, TX 79706

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

9. API Well No.  
30-025-42795

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

At surface Sec 19 T26S R33E Mer NMP  
266FNL 1778FEL

At top prod interval reported below Sec 18 T26S R33E Mer NMP  
374FNL 2312FEL

At total depth Sec 18 T26S R33E Mer NMP  
374FNL 2312FEL

10. Field and Pool, or Exploratory  
WILDCAT; BONE SPRING11. Sec., T., R., M., or Block and Survey  
or Area Sec 19 T26S R33E Mer NMP12. County or Parish  
LEA13. State  
NM14. Date Spudded  
01/27/201615. Date T.D. Reached  
04/09/201616. Date Completed  
☐ D & A ☒ Ready to Prod.  
05/16/201617. Elevations (DF, KB, RT, GL)\*  
3205 GL18. Total Depth: MD  
TVD 14214  
915319. Plug Back T.D.: MD  
TVD 1411520. Depth Bridge Plug Set: MD  
TVD21. 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		851		1006		0	
12.250	9.625 HCK-55	40.0		4721		1527		0	
8.750	5.500 P-110	20.0		14204		1691		4035	

## 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	8776	8746						

## 25. Producing Intervals

## 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	9619	14015	9619 TO 14015			PRODUCING ****DETAILED PERI
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
9619 TO 14015	FRAC W/TOTAL SAND (SAND 100 & SAND 40/70) = 6,008,031 LBS

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

## 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
	07/25/2016	24	→	684.0	1461.0	390.0			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	
32/64"	807	500.0	→				2136	POW	

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

ELECTRONIC SUBMISSION #350283 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	4739	ANHYDRITE	CASTILE	2940
LAMAR	4740	4759	LIMESTONE	LAMAR	4740
BELL CANYON	4760	5869	SANDSTONE	BELL CANYON	4760
CHERRY CANYON	5870	7524	SANDSTONE	CHERRY CANYON	5870
BRUSHY CANYON	7525	8979	SANDSTONE	BRUSHY CANYON	7525
BONE SPRING LIME	8980	9029	LIMESTONE	BONE SPRING LIME	8980
UPPER AVALON	9030	14214	SHALE	UPPER AVALON	9030

## 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 #350283 Verified by the BLM Well Information System.  
For CHEVRON U.S.A. INC., sent to the Hobbs**

Name (please print) DENISE PINKERTONTitle PERMITTING SPECIALIST

Signature \_\_\_\_\_ (Electronic Submission)

Date 09/07/2016

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.

\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\*



**HOBBS OCD**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

SEP 1 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.**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 ☐ Other8. Well Name and No.  
SD EA 18 FED P6 005H2. Name of Operator  
CHEVRON U.S.A. INC.Contact: DENISE PINKERTON  
E-Mail: leakejd@chevron.com9. API Well No.  
30-025-427953a. Address  
6301 DEAUVILLE BLVD  
MIDLAND, TX 797063b. Phone No. (include area code)  
Ph: 432-687-737510. Field and Pool, or Exploratory  
BONE SPRING

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 19 T26S R33E Mer NMP 266FNL 1778FEL

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
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Drilling Operations
	<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.)

01/27/2016: SPUD WELL @ 12:00 HRS.DRILL SURFACE HOLE 112-375, 435, 650, 861.

01/28/2016: RUN 13 3/8", 54.5#, J-55 STC CSG @ 851'. TAG BTM @ 861. CSG SHOE @ 851. TOP OF FC @ 810'. NOTIFIED PAUL FLOWERS, BLM, @ 19:51 HRS OF INTENT TO RUN CSG. PRESSURE TEST LINES TO 3500 PSI. PMP 40 BBLS SPACER @ 8.3 PPG. MIX &amp; PUMP 1006 SX CMT @ 14.8PPG. FULL RETURNS THROUGHOUT JOB. FINAL CIRC PRESS PRIOR TO BUMPING PLUG 332 PSI @ 2.2 BPM. 110 BBLS CMT TO SURFACE.

03/30/2016: TEST BOPE TO 250 PSI LOW/5000 PSI HIGH. TAG LC @ 810'.  
DRILL INTERMEDIATE HOLE 871-1490, 2109, 2564, 3616, 3800, 4605, 4612, 4731.04/01/2016: RAN 9 5/8", HCK-55.40# CSG @ 4721'. FS @ 4721. FC @ 4636.  
PRESS TEST LINES TO 500 PSI LOW & 5000 PSI HIGH. PMP 40 BBLS DYED FW SPACER. MIX & PUMP 1066 SX

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

**Electronic Submission #350212 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 09/07/2016

**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 #350212 that would not fit on the form**

**32. Additional remarks, continued**

LEAD CMT @ 11.9PPG. MIX & PUMP 461 SX TAIL CMT @ 14.8PPG. FULL RETURNS THROUGHOUT JOB. FINAL CIRC PRESS PRIOR TO BUMPING PLUG 1197 PSI @ 2.5BPM. 230 BBLS/524 SX OF CMT RETURNED TO SURF. CMT IN PLACE @ 20:30 HRS.WOC. TAG CMT @ 4625. PRESS TEST CSG TO 2800 PSI FOR 30 MINS. DRILL 10'NEW FORMATION TO 4741.

DRILL 4741-5470, 7116, 7689, 8219, 8589, 8752, 8933, 9114, 9232, 9379, 9476,9744, 10021, 10360, 10717, 11247, 11605, 12147, 12679, 13139, 13463, 13656, 14009, 14214. (TD REACHED ON 04/09/2016)

04/10/2016: RAN 5 1/2", P-110, 20# CSG @ 14204'. LC @ 14115.

PRESS TEST 500 PSI LOW, 6500 PSI HIGH. CMT W/1691 SX CMT.

FINAL CIRC PRESS 1550 PSI @ 3 BPM. LOST RETURNS @ 220 BBLS INTO DISPL. TOC @ 4035'. CMT IN PLACE @ 11:30. RELEASE RIG 04/11/2016.

ATTACHMENTS: DIRECTIONAL SURVEY, CSG & CMT SUMMARY



# Casing Summary

Well Name SALADO DRAW EA 18 FED P6 005H		Lease Salado Draw EA 18 Fed P6		Field Name WILDCAT (HOBBS)		Business Unit Mid-Continent	
Ground Elevation (ft) 3,205.00	Original RKB (ft) 3,237.60	Current RKB Elevation 3,237.60, 12/15/2015				Mud Line Elevation (ft)	Water Depth (ft)

## Surface, Planned?-N, 851ftKB

Set Depth (MD) (ftKB) 851		Set Tension (kips)		String Nominal OD (in) 13 3/8		String Min Drift (in) 12.469		Centralizers 9		Scratchers	
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
1	Wellhead	13 3/8	12.625	54.50	J-55		32	35	2.90	2,730.0	1,130.0
1	Pup Joint	13 3/8	12.625	54.50	J-55		35	41	5.53	2,730.0	1,130.0
18	Casing Joint	13 3/8	12.625	54.50	J-55		41	810	769.13	2,730.0	1,130.0
1	Float Collar	13 3/8	12.625	54.50	J-55		810	811	1.39	2,730.0	1,130.0
1	Casing Joint	13 3/8	12.625	54.50	J-55		811	850	38.94	2,730.0	1,130.0
1	Float Shoe	13 3/8	12.625	54.50	J-55		850	851	0.68	2,730.0	1,130.0

## Intermediate Casing 1, Planned?-N, 4,721ftKB

Set Depth (MD) (ftKB) 4,721		Set Tension (kips)		String Nominal OD (in) 9 5/8		String Min Drift (in)		Centralizers 31		Scratchers	
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
1	Hanger	9 5/8	8.835	40.00	HCK-55	LT&C	33	35	1.95		2,570.0
1	Pup Jt	9 5/8	8.835	40.00	HCK-55	LT&C	35	38	3.26		2,570.0
11	Casing Joint	9 5/8	8.835	40.00	HCK-55	LT&C	38	4,636	4,598.03		2,570.0
0											
1	Float Collar	9 5/8	8.835	40.00	HCK-55	LT&C	4,636	4,637	1.49		2,570.0
2	Casing Joint	9 5/8	8.835	40.00	HCK-55	LT&C	4,637	4,719	82.07		2,570.0
1	Float Shoe	9 5/8	8.835	40.00	HCK-55	LT&C	4,719	4,721	1.63		

## Production Casing, Planned?-N, 14,204ftKB

Set Depth (MD) (ftKB) 14,204		Set Tension (kips)		String Nominal OD (in) 5 1/2		String Min Drift (in)		Centralizers 105		Scratchers	
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
1	Casing Hanger	5 1/2	4.778	20.00			33	33	0.70		11,100.0
1	Casing Pup Joint	5 1/2	4.778	20.00			33	38	4.27		11,100.0
20	Casing Joint	5 1/2	4.778	20.00	P-110		38	8,712	8,674.38		11,100.0
9											
1	Casing Pup Joint	5 1/2	4.778	20.00	P-110		8,712	8,723	10.92		
83	Casing Joint	5 1/2	4.778	20.00	P-110		8,723	12,132	3,409.23		11,100.0
46	Casing Joint	5 1/2	4.778	20.00	P-110		12,132	14,033	1,900.48		
1	Casing Pup Joint	5 1/2	4.778	20.00	P-110		14,033	14,043	10.36		
1	RSI	5 1/2	4.778	20.00			14,043	14,050	6.67		
1	Casing Pup Joint	5 1/2	4.778	20.00	P-110		14,050	14,060	10.20		
1	Casing Joint	5 1/2	4.778	20.00	P-110		14,060	14,103	42.96		
1	Casing Pup Joint	5 1/2	4.778	20.00	P-110		14,103	14,113	10.19		
1	Landing Collar	5 1/2	4.778	20.00	P-110		14,113	14,115	1.48		
1	Casing Joint	5 1/2	4.778	20.00	P-110		14,115	14,154	39.17		
1	Float Collar	5 1/2	4.778	20.00	P-110		14,154	14,156	2.45		
1	XRV	5 1/2	4.778	20.00			14,156	14,158	2.19		
1	Casing Joint	5 1/2	4.778	20.00	P-110		14,158	14,201	42.90		
1	Float Shoe	5 1/2	4.778	20.00	P-110		14,201	14,204	2.70		

**HOBBS OCD**

**SEP 12 2016**

**RECEIVED**





# Cement Summary

Surface Casing Cement

Well Name SALADO DRAW EA 18 FED P6 005H		Lease Salado Draw EA 18 Fed P6	Field Name WILDCAT (HOBBS)	Business Unit Mid-Continent	
Ground Elevation (ft) 3,205.00	Original RKB (ft) 3,237.60	Current RKB Elevation 3,237.60, 12/15/2015		Mud Line Elevation (ft)	Water Depth (ft)

## Original Hole

Wellbore Name Original Hole		Directional Type Horizontal		Min Kick Off Depth (ftKB) 8,752.0		Vertical Section Direction (*) 354.12	
Hole Size (in)		Act Top (ftKB)		Act Btm (ftKB)			
17 1/2		32.6		861.0			
12 1/4		861.0		4,731.0			
8 3/4		4,731.0		14,214.0			

## Multi-bowl, FMC on <dtmstart>

Sub-Type Multi-bowl				Install Date			
Des	Make	Model	WP (psi)	Service	SN		
	FMC						

## Surface, Planned?-N, 851ftKB

Casing Description Surface		Wellbore Original Hole		Run Date 1/28/2016		Set Depth (MD) (ftKB) 851		Stick Up (ftKB) -32.4		Set Tension (kips)	
Centralizers 9						Scratchers					
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	
1	Wellhead	13 3/8	12.625	54.50	J-55			2.90	32	35	
1	Pup Joint	13 3/8	12.625	54.50	J-55			5.53	35	41	
18	Casing Joint	13 3/8	12.625	54.50	J-55			769.13	41	810	
1	Float Collar	13 3/8	12.625	54.50	J-55			1.39	810	811	
1	Casing Joint	13 3/8	12.625	54.50	J-55			38.94	811	850	
1	Float Shoe	13 3/8	12.625	54.50	J-55			0.68	850	851	

## Intermediate Casing 1, Planned?-N, 4,721ftKB

Casing Description Intermediate Casing 1		Wellbore Original Hole		Run Date 4/1/2016		Set Depth (MD) (ftKB) 4,721		Stick Up (ftKB) -32.6		Set Tension (kips)	
Centralizers 31						Scratchers					
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	
1	Hanger	9 5/8	8.835	40.00	HCK-55		LT&C	1.95	33	35	
1	Pup Jt	9 5/8	8.835	40.00	HCK-55		LT&C	3.26	35	38	
110	Casing Joint	9 5/8	8.835	40.00	HCK-55		LT&C	4,598.03	38	4,636	
1	Float Collar	9 5/8	8.835	40.00	HCK-55		LT&C	1.49	4,636	4,637	
2	Casing Joint	9 5/8	8.835	40.00	HCK-55		LT&C	82.07	4,637	4,719	
1	Float Shoe	9 5/8	8.835	40.00	HCK-55		LT&C	1.63	4,719	4,721	

## Production Casing, Planned?-N, 14,204ftKB

Casing Description Production Casing		Wellbore Original Hole		Run Date 4/10/2016		Set Depth (MD) (ftKB) 14,204		Stick Up (ftKB) -32.7		Set Tension (kips)	
Centralizers 105						Scratchers					
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	
1	Casing Hanger	5 1/2	4.778	20.00				0.70	33	33	
1	Casing Pup Joint	5 1/2	4.778	20.00				4.27	33	38	
209	Casing Joint	5 1/2	4.778	20.00	P-110			8,674.38	38	8,712	
1	Casing Pup Joint	5 1/2	4.778	20.00	P-110			10.92	8,712	8,723	
83	Casing Joint	5 1/2	4.778	20.00	P-110			3,409.23	8,723	12,132	
46	Casing Joint	5 1/2	4.778	20.00	P-110			1,900.48	12,132	14,033	
1	Casing Pup Joint	5 1/2	4.778	20.00	P-110			10.36	14,033	14,043	
1	RSI	5 1/2	4.778	20.00				6.67	14,043	14,050	
1	Casing Pup Joint	5 1/2	4.778	20.00	P-110			10.20	14,050	14,060	
1	Casing Joint	5 1/2	4.778	20.00	P-110			42.96	14,060	14,103	
1	Casing Pup Joint	5 1/2	4.778	20.00	P-110			10.19	14,103	14,113	
1	Landing Collar	5 1/2	4.778	20.00	P-110			1.48	14,113	14,115	
1	Casing Joint	5 1/2	4.778	20.00	P-110			39.17	14,115	14,154	
1	Float Collar	5 1/2	4.778	20.00	P-110			2.45	14,154	14,156	
1	XRV	5 1/2	4.778	20.00				2.19	14,156	14,158	
1	Casing Joint	5 1/2	4.778	20.00	P-110			42.90	14,158	14,201	
1	Float Shoe	5 1/2	4.778	20.00	P-110			2.70	14,201	14,204	





# Cement Summary

Surface Casing Cement

Well Name SALADO DRAW EA 18 FED P6 005H		Lease Salado Draw EA 18 Fed P6		Field Name WILDCAT (HOBBS)		Business Unit Mid-Continent	
Ground Elevation (ft) 3,205.00	Original RKB (ft) 3,237.60	Current RKB Elevation 3,237.60, 12/15/2015				Mud Line Elevation (ft)	Water Depth (ft)

## Surface Casing Cement, Casing, 1/28/2016 16:17

Cementing Start Date 1/28/2016		Cementing End Date 1/28/2016		Wellbore Original Hole	
Evaluation Method Returns to Surface		Cement Evaluation Results Full returns			

### Comment

Tested service lines to 3,500 psi. Pumped 40 bbl FW dyed spacer, 238 bbl (1006 sx) of tail cement, displaced with 125 bbl of 8.34 ppg FW. Bumped plug with 500 over final circulating pressure. Bled back 1 bbl. Floats held.

### 1, 32.6-861.0ftKB

Top Depth (ftKB) 32.6	Bottom Depth (ftKB) 861.0	Full Return? Y	Vol Cement Ret (bbl) 105.0	Top Plug? Y	Bottom Plug? N
Initial Pump Rate (bbl/min) 4.8	Final Pump Rate (bbl/min) 2.2	Avg Pump Rate (bbl/min) 3.5		Final Pump Pressure (psi) 338.0	Plug Bump Pressure (psi) 880.0
Pipe Reciprocated? N	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)		Pipe Rotated? N	Pipe RPM (rpm)
Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)		Drill Out Diameter (in)	Drill Out Date

### Spacer

Fluid Type Spacer	Fluid Description	Quantity (sacks) 0	Class	Volume Pumped (bbl) 40.0
Estimated Top (ftKB) 32.6	Estimated Bottom Depth (ftKB) 32.6	Percent Excess Pumped (%)	Yield (ft <sup>3</sup> /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 8.30	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

### Cement Fluid Additives

Add	Type	Conc

### Tail

Fluid Type Tail	Fluid Description Cement	Quantity (sacks) 1,006	Class C	Volume Pumped (bbl) 238.0
Estimated Top (ftKB) 32.6	Estimated Bottom Depth (ftKB) 861.0	Percent Excess Pumped (%) 125.0	Yield (ft <sup>3</sup> /sack) 1.33	Fluid Mix Ratio (gal/sack) 6.37
Free Water (%)	Density (lb/gal) 14.80	Zero Gel Time (min)	Thickening Time (hr) 4.50	1st Compressive Strength (psi)

### Cement Fluid Additives

Add	Type	Conc





# Cement Summary

Intermediate Casing Cement

Well Name SALADO DRAW EA 18 FED P6 005H		Lease Salado Draw EA 18 Fed P6		Field Name WILDCAT (HOBBS)		Business Unit Mid-Continent	
Ground Elevation (ft) 3,205.00	Original RKB (ft) 3,237.60	Current RKB Elevation 3,237.60, 12/15/2015				Mud Line Elevation (ft)	Water Depth (ft)

## Original Hole

Wellbore Name Original Hole	Directional Type Horizontal	Min Kick Off Depth (ftKB) 8,752.0	Vertical Section Direction (°) 354.12
Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	
17 1/2	32.6	861.0	
12 1/4	861.0	4,731.0	
8 3/4	4,731.0	14,214.0	

## Multi-bowl, FMC on <dtmstart>

Sub-Type Multi-bowl			Install Date				
Des	Make	Model	WP (psi)	Service	SN		
	FMC						

## Surface, Planned?-N, 851ftKB

Casing Description Surface		Wellbore Original Hole		Run Date 1/28/2016		Set Depth (MD) (ftKB) 851		Stick Up (ftKB) -32.4		Set Tension (kips)	
Centralizers 9						Scratchers					
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	
1	Wellhead	13 3/8	12.625	54.50	J-55			2.90	32	35	
1	Pup Joint	13 3/8	12.625	54.50	J-55			5.53	35	41	
18	Casing Joint	13 3/8	12.625	54.50	J-55			769.13	41	810	
1	Float Collar	13 3/8	12.625	54.50	J-55			1.39	810	811	
1	Casing Joint	13 3/8	12.625	54.50	J-55			38.94	811	850	
1	Float Shoe	13 3/8	12.625	54.50	J-55			0.68	850	851	

## Intermediate Casing 1, Planned?-N, 4,721ftKB

Casing Description Intermediate Casing 1		Wellbore Original Hole		Run Date 4/1/2016		Set Depth (MD) (ftKB) 4,721		Stick Up (ftKB) -32.6		Set Tension (kips)	
Centralizers 31						Scratchers					
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	
1	Hanger	9 5/8	8.835	40.00	HCK-55		LT&C	1.95	33	35	
1	Pup Jt	9 5/8	8.835	40.00	HCK-55		LT&C	3.26	35	38	
110	Casing Joint	9 5/8	8.835	40.00	HCK-55		LT&C	4,598.03	38	4,636	
1	Float Collar	9 5/8	8.835	40.00	HCK-55		LT&C	1.49	4,636	4,637	
2	Casing Joint	9 5/8	8.835	40.00	HCK-55		LT&C	82.07	4,637	4,719	
1	Float Shoe	9 5/8	8.835	40.00	HCK-55		LT&C	1.63	4,719	4,721	

## Production Casing, Planned?-N, 14,204ftKB

Casing Description Production Casing		Wellbore Original Hole		Run Date 4/10/2016		Set Depth (MD) (ftKB) 14,204		Stick Up (ftKB) -32.7		Set Tension (kips)	
Centralizers 105						Scratchers					
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	
1	Casing Hanger	5 1/2	4.778	20.00				0.70	33	33	
1	Casing Pup Joint	5 1/2	4.778	20.00				4.27	33	38	
209	Casing Joint	5 1/2	4.778	20.00	P-110			8,674.38	38	8,712	
1	Casing Pup Joint	5 1/2	4.778	20.00	P-110			10.92	8,712	8,723	
83	Casing Joint	5 1/2	4.778	20.00	P-110			3,409.23	8,723	12,132	
46	Casing Joint	5 1/2	4.778	20.00	P-110			1,900.48	12,132	14,033	
1	Casing Pup Joint	5 1/2	4.778	20.00	P-110			10.36	14,033	14,043	
1	RSI	5 1/2	4.778	20.00				6.67	14,043	14,050	
1	Casing Pup Joint	5 1/2	4.778	20.00	P-110			10.20	14,050	14,060	
1	Casing Joint	5 1/2	4.778	20.00	P-110			42.96	14,060	14,103	
1	Casing Pup Joint	5 1/2	4.778	20.00	P-110			10.19	14,103	14,113	
1	Landing Collar	5 1/2	4.778	20.00	P-110			1.48	14,113	14,115	
1	Casing Joint	5 1/2	4.778	20.00	P-110			39.17	14,115	14,154	
1	Float Collar	5 1/2	4.778	20.00	P-110			2.45	14,154	14,156	
1	XRV	5 1/2	4.778	20.00				2.19	14,156	14,158	
1	Casing Joint	5 1/2	4.778	20.00	P-110			42.90	14,158	14,201	
1	Float Shoe	5 1/2	4.778	20.00	P-110			2.70	14,201	14,204	





# Cement Summary

Intermediate Casing Cement

Well Name SALADO DRAW EA 18 FED P6 005H		Lease Salado Draw EA 18 Fed P6		Field Name WILDCAT (HOBBS)		Business Unit Mid-Continent	
Ground Elevation (ft) 3,205.00	Original RKB (ft) 3,237.60	Current RKB Elevation 3,237.60, 12/15/2015				Mud Line Elevation (ft)	Water Depth (ft)

## Intermediate Casing Cement, Casing, 4/1/2016 17:30

Cementing Start Date 4/1/2016	Cementing End Date 4/1/2016	Wellbore Original Hole
Evaluation Method Returns to Surface	Cement Evaluation Results Full returns	

Comment  
Perform cmt job as follows:

- Load lines with 10 BBL dyed FW
- Pressure test lines to 500 psi low & 5,000 psi high
- Pump 40 bbls dyed FW spacer
- Mix and pump 1066 sx (461 bbls) of Lead at 11.9 ppg.
- Mix and pump 461 sx (109 bbl) of Tail at 14.8 ppg
- Drop wiper plug and displace cmt w/353 bbl FW
- Bump plug with 500 psi over final circulating pressure at 1700 psi.
- Held pressure for 5 min.
- Bled back 2.3 bbl. Floats holding.

Details:

- Full returns throughout job.
- Final circulating pressure prior to bumping plug 1197 psi at 2.5 bpm. - 230 bbls/524 sks of cmt returned to surface
- Cmt in place at 20:30 hrs 4/1/2016

### 1, 32.6-4,731.0ftKB

Top Depth (ftKB) 32.6	Bottom Depth (ftKB) 4,731.0	Full Return? Y	Vol Cement Ret (bbl) 230.0	Top Plug? N	Bottom Plug? Y
Initial Pump Rate (bbl/min) 6.6	Final Pump Rate (bbl/min) 2.5	Avg Pump Rate (bbl/min) 6		Final Pump Pressure (psi) 1,197.0	Plug Bump Pressure (psi) 1,700.0
Pipe Reciprocated? N	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)		Pipe Rotated? N	Pipe RPM (rpm)
Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)		Drill Out Diameter (in)	Drill Out Date

### Spacer

Fluid Type Spacer	Fluid Description Dyed Spacer	Quantity (sacks)	Class	Volume Pumped (bbl) 40.0
Estimated Top (ftKB) 32.6	Estimated Bottom Depth (ftKB) 32.6	Percent Excess Pumped (%)	Yield (ft <sup>3</sup> /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 8.30	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

### Cement Fluid Additives

Add	Type	Conc

### Lead

Fluid Type Lead	Fluid Description 50:50 POZ/C	Quantity (sacks) 1,066	Class C	Volume Pumped (bbl) 463.0
Estimated Top (ftKB) 32.6	Estimated Bottom Depth (ftKB) 3,587.0	Percent Excess Pumped (%) 150.0	Yield (ft <sup>3</sup> /sack) 2.46	Fluid Mix Ratio (gal/sack) 13.98
Free Water (%)	Density (lb/gal) 11.90	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

### Cement Fluid Additives

Add	Type	Conc

### Tail

Fluid Type Tail	Fluid Description C-Neat	Quantity (sacks) 461	Class C	Volume Pumped (bbl) 109.0
Estimated Top (ftKB) 3,587.0	Estimated Bottom Depth (ftKB) 4,587.0	Percent Excess Pumped (%) 85.0	Yield (ft <sup>3</sup> /sack) 1.33	Fluid Mix Ratio (gal/sack) 6.35
Free Water (%)	Density (lb/gal) 14.80	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

### Cement Fluid Additives

Add	Type	Conc

### Displacement

Fluid Type Displacement	Fluid Description Displacement	Quantity (sacks)	Class	Volume Pumped (bbl) 352.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft <sup>3</sup> /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 8.30	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

### Cement Fluid Additives

Add	Type	Conc





# Cement Summary

Production Casing Cement

Well Name SALADO DRAW EA 18 FED P6 005H		Lease Salado Draw EA 18 Fed P6	Field Name WILDCAT (HOBBS)	Business Unit Mid-Continent	
Ground Elevation (ft) 3,205.00	Original RKB (ft) 3,237.60	Current RKB Elevation 3,237.60, 12/15/2015		Mud Line Elevation (ft)	Water Depth (ft)

## Original Hole

Wellbore Name Original Hole		Directional Type Horizontal		Min Kick Off Depth (ftKB) 8,752.0		Vertical Section Direction (*) 354.12	
Hole Size (in)		Act Top (ftKB)			Act Btm (ftKB)		
17 1/2		32.6			861.0		
12 1/4		861.0			4,731.0		
8 3/4		4,731.0			14,214.0		

## Multi-bowl, FMC on <dtmstart>

Sub-Type Multi-bowl				Install Date			
Des	Make	Model	WP (psi)	Service	SN		
	FMC						

## Surface, Planned?-N, 851ftKB

Casing Description Surface		Wellbore Original Hole		Run Date 1/28/2016		Set Depth (MD) (ftKB) 851		Stick Up (ftKB) -32.4		Set Tension (kips)	
Centralizers 9						Scratchers					
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	
1	Wellhead	13 3/8	12.625	54.50	J-55			2.90	32	35	
1	Pup Joint	13 3/8	12.625	54.50	J-55			5.53	35	41	
18	Casing Joint	13 3/8	12.625	54.50	J-55			769.13	41	810	
1	Float Collar	13 3/8	12.625	54.50	J-55			1.39	810	811	
1	Casing Joint	13 3/8	12.625	54.50	J-55			38.94	811	850	
1	Float Shoe	13 3/8	12.625	54.50	J-55			0.68	850	851	

## Intermediate Casing 1, Planned?-N, 4,721ftKB

Casing Description Intermediate Casing 1		Wellbore Original Hole		Run Date 4/1/2016		Set Depth (MD) (ftKB) 4,721		Stick Up (ftKB) -32.6		Set Tension (kips)	
Centralizers 31						Scratchers					
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	
1	Hanger	9 5/8	8.835	40.00	HCK-55		LT&C	1.95	33	35	
1	Pup Jt	9 5/8	8.835	40.00	HCK-55		LT&C	3.26	35	38	
110	Casing Joint	9 5/8	8.835	40.00	HCK-55		LT&C	4,598.03	38	4,636	
1	Float Collar	9 5/8	8.835	40.00	HCK-55		LT&C	1.49	4,636	4,637	
2	Casing Joint	9 5/8	8.835	40.00	HCK-55		LT&C	82.07	4,637	4,719	
1	Float Shoe	9 5/8	8.835	40.00	HCK-55		LT&C	1.63	4,719	4,721	

## Production Casing, Planned?-N, 14,204ftKB

Casing Description Production Casing		Wellbore Original Hole		Run Date 4/10/2016		Set Depth (MD) (ftKB) 14,204		Stick Up (ftKB) -32.7		Set Tension (kips)	
Centralizers 105						Scratchers					
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	
1	Casing Hanger	5 1/2	4.778	20.00				0.70	33	33	
1	Casing Pup Joint	5 1/2	4.778	20.00				4.27	33	38	
209	Casing Joint	5 1/2	4.778	20.00	P-110			8,674.38	38	8,712	
1	Casing Pup Joint	5 1/2	4.778	20.00	P-110			10.92	8,712	8,723	
83	Casing Joint	5 1/2	4.778	20.00	P-110			3,409.23	8,723	12,132	
46	Casing Joint	5 1/2	4.778	20.00	P-110			1,900.48	12,132	14,033	
1	Casing Pup Joint	5 1/2	4.778	20.00	P-110			10.36	14,033	14,043	
1	RSI	5 1/2	4.778	20.00				6.67	14,043	14,050	
1	Casing Pup Joint	5 1/2	4.778	20.00	P-110			10.20	14,050	14,060	
1	Casing Joint	5 1/2	4.778	20.00	P-110			42.96	14,060	14,103	
1	Casing Pup Joint	5 1/2	4.778	20.00	P-110			10.19	14,103	14,113	
1	Landing Collar	5 1/2	4.778	20.00	P-110			1.48	14,113	14,115	
1	Casing Joint	5 1/2	4.778	20.00	P-110			39.17	14,115	14,154	
1	Float Collar	5 1/2	4.778	20.00	P-110			2.45	14,154	14,156	
1	XRV	5 1/2	4.778	20.00				2.19	14,156	14,158	
1	Casing Joint	5 1/2	4.778	20.00	P-110			42.90	14,158	14,201	
1	Float Shoe	5 1/2	4.778	20.00	P-110			2.70	14,201	14,204	





# Cement Summary

Production Casing Cement

Well Name SALADO DRAW EA 18 FED P6 005H		Lease Salado Draw EA 18 Fed P6		Field Name WILDCAT (HOBBS)		Business Unit Mid-Continent	
Ground Elevation (ft) 3,205.00	Original RKB (ft) 3,237.60	Current RKB Elevation 3,237.60, 12/15/2015				Mud Line Elevation (ft)	Water Depth (ft)

## Production Casing Cement, Casing, 4/11/2016 08:00

Cementing Start Date 4/11/2016		Cementing End Date 4/11/2016	Wellbore Original Hole
Evaluation Method Lift Pressure	Cement Evaluation Results Lost returns 220 bbl into displacement. Estimated TOC 2,570'		

Comment  
Pump production cement job as follows:

Pressure test 500 psi low 6500 psi high  
Bleed off  
Drop bottom plug  
Pump 30 bbl 10 ppg Mudpush spacer  
Pump 310 bbl 11.5 ppg lead 1 at 5 bpm  
20 bbl of lead 1  
50 bbl of lead 1 w/ CemNET  
50 bbl of lead 1  
40 bbl of lead 1 w/ CemNET  
140 bbl of lead 1  
Pump 266.6 bbl 12.5 ppg lead 2 at 6 bpm  
Pump 46.6 bbl 15 ppg tail at 4 bpm  
Drop top plug  
Pump 311 bbl fresh water displacement  
20 bbl with acid at 4 bpm  
291 bbl fresh water at 3 bpm  
Final circulating pressure 1550 psi at 3 bpm  
Bump plug pressure 2277 psi  
Hold 500 psi over FCP for 5 min  
Bled back 2.5 bbl - floats held  
Lost returns at 220 bbl into displacement  
Estimated TOC 2570 ft  
Cement in place at 11:30

**1, 2,570.0-14,214.0ftKB**

Top Depth (ftKB) 2,570.0	Bottom Depth (ftKB) 14,214.0	Full Return? N	Vol Cement Ret (bbl) 0.0	Top Plug? Y	Bottom Plug? Y
Initial Pump Rate (bbl/min) 5	Final Pump Rate (bbl/min) 3.3	Avg Pump Rate (bbl/min) 5.5	Final Pump Pressure (psi) 1,550.0	Plug Bump Pressure (psi) 2,270.0	
Pipe Reciprocated? N	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated? N	Pipe RPM (rpm)	
Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date	

## Spacer

Fluid Type Spacer	Fluid Description MUDPUSH Express Spacer	Quantity (sacks)	Class	Volume Pumped (bbl) 30.0
Estimated Top (ftKB) 1,923.0	Estimated Bottom Depth (ftKB) 2,570.0	Percent Excess Pumped (%)	Yield (ft <sup>3</sup> /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 10.00	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

## Cement Fluid Additives

Add	Type	Conc

## Lead

Fluid Type Lead	Fluid Description 50:50 Poz/H + .2% D046 + 6.5% D020 + 8% D154 + .2% D065 + 2lb/sk B288 + 2 lb/sk B289	Quantity (sacks) 647	Class H	Volume Pumped (bbl) 310.0
Estimated Top (ftKB) 2,570.0	Estimated Bottom Depth (ftKB) 8,759.0	Percent Excess Pumped (%) 50.0	Yield (ft <sup>3</sup> /sack) 2.69	Fluid Mix Ratio (gal/sack) 15.77
Free Water (%)	Density (lb/gal) 11.50	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

## Cement Fluid Additives

Add	Type	Conc

## Lead

Fluid Type Lead	Fluid Description TXI + 4% D020 + .2% D046 + .2% D065 + .5% D112 + .4% D013 + .08% D208	Quantity (sacks) 924	Class H	Volume Pumped (bbl) 266.6
Estimated Top (ftKB) 8,759.0	Estimated Bottom Depth (ftKB) 13,204.0	Percent Excess Pumped (%) 35.0	Yield (ft <sup>3</sup> /sack) 1.62	Fluid Mix Ratio (gal/sack) 8.70
Free Water (%)	Density (lb/gal) 12.50	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)





# Cement Summary

Production Casing Cement

Well Name SALADO DRAW EA 18 FED P6 005H		Lease Salado Draw EA 18 Fed P6	Field Name WILDCAT (HOBBS)	Business Unit Mid-Continent	
Ground Elevation (ft) 3,205.00	Original RKB (ft) 3,237.60	Current RKB Elevation 3,237.60, 12/15/2015		Mud Line Elevation (ft)	Water Depth (ft)

## Cement Fluid Additives

Add	Type	Conc

## Tail

Fluid Type Tail	Fluid Description Class H + 2% D046 + .2% D065 + .4% D167 + .2% D800 + 75% D151 + .1% D208	Quantity (sacks) 120	Class H	Volume Pumped (bbl) 46.6
Estimated Top (ftKB) 13,204.0	Estimated Bottom Depth (ftKB) 14,214.0	Percent Excess Pumped (%) 0.0	Yield (ft <sup>3</sup> /sack) 2.18	Fluid Mix Ratio (gal/sack) 9.55
Free Water (%)	Density (lb/gal) 15.00	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

## Cement Fluid Additives

Add	Type	Conc

## Displacement

Fluid Type Displacement	Fluid Description 20 bbls Acetic Acid 291 bbls FW	Quantity (sacks)	Class	Volume Pumped (bbl) 311.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft <sup>3</sup> /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 8.33	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

## Cement Fluid Additives

Add	Type	Conc



**HOBBS OCD**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

SEP 19 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.

5. Lease Serial No.  
NMNM27506

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
SD EA 18 FED P6 005H9. API Well No.  
30-025-4279510. Field and Pool, or Exploratory  
BONE SPRING11. 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
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Production Start-up
	<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:

04/21/2016: MIRU.TIH W/CBL FROM 9420-SURFACE. 0 PSI ON WELL.

04/24/2016: PRESS TO 750PSI LOW, 9800PSI HIGH. ESTAB INJECTION RATE. TOTAL BBLS PUMPED 87 BBLS.

SIP - 2700 PSI.

05/02/2016: TEST LUBRICATOR 750/9500 PSI FOR 15 MINS. GOOD.

05/02/2016 THROUGH 05/16/2016: PERF 14,015 - 9619'

FRAC W/TOTAL SAND (SAND 100 MESH &amp; SAND 40/70) = 6,008,031 LBS

\*\*\*\*\*DETAILED PERF &amp; FRAC REPORT ATTACHED\*\*\*\*\*

05/22/2016: TIH W/PACKER &amp; SET @ 8746'.

05/31/2016: TIH W/2 7/8" TBG SET @ 8776'. \*\*\*\*\*TBG SUMMARY ATTACHED\*\*\*\*\*

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

Electronic Submission #350278 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 09/07/2016

## 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 #350278 that would not fit on the form**

**32. Additional remarks, continued**

TBG PRESS UP TO 1600 PSI. CSG PRESS UP TO 500 PSI.

06/01/2016: RIG DOWN. RELEASE RIG.

07/25/2016: ON 24 HR OPT. FLOWING 684 OIL, 1461 GAS, 390 WATER. GOR - 2136.  
TBG - 807 PSI ON 32/64" CHOKE.



SD EA 18 FED P6 @005H

PERF & FRAC INFORMATION

**STAGE 1: 14015, 13953, 13893, 13833, 13773**

6 spf, .41 dia hole.

**PUMP STAGE 1:**

Sand in formation 419,808 lbs 100% Prime up & test lines to 9500psi.  
Equalize/open well @ 1219 psi. Avg Rate 83.3 bpm. Avg press:5336 psi.  
Max Rate: 85.5 bpm Max Press:8603 psi. ISIP:1957 psi  
Pump Time 124 mins Total clean fluid 9157 bbls Total slurry volume 9609 bbls  
Sand pumped: Sand 100 – 328240 lbs Sand 40/70 – 387,208 lbs TOTAL:420,032 lbs

**STAGE 2: 13743, 13717, 13651, 13593, 12533, 13473**

6 jspf, .41 dia hole. Total bbls pmpd: 330 bbls, max pressure 2323 psi

**PUMP STAGE 2:**

Sand in formation 419,808 lbs: 100% Test lines to 9500 psi.  
Equalize/open well @ 1661 psi. Avg Rate: 89.2 bpm Avg Pressure 5044 psi  
Max rate: 91.1 bpm Max Pressure 7443 psi ISIP 2267 psi  
Pump Time: 60 mins. Total clean fluid:9109 bbls Total Slurry volume:9560 bbls  
Sand pumped: Sand 100 – 30,956 lbs, Sand 40/70: 388,040 lbs TOTAL: 418,996 lbs

**STAGE 3: 13443, 13413, 13353, 13270, 13210, 13173**

6 jspf, .41 dia hole. Total bbls pmpd: 300 bbls. Max pressure: 2356 psi

**PUMP STAGE 3**

Sand in formation 419,808 lbs, 100% Prime up & test lines to 9500psi.  
Equalize/open well @ 1157 psi. Ave Rate: 90.4 bpm Ave Pressure: 6212 psi  
Max Rate:90.7 bpm, Max Pressure: 7506 psi. ISIP: 2273 psi.  
Pump Time: 113 mins. Total clean fluid: 8861 bbls. Total slurry volume:9314 bbls  
Sand Pumped: Sand 100 –33,097 lbs, Sand 40/70:387,875 lbs. TOTAL: 420,972 lbs

**STAGE 4: 13103, 13063, 12993, 12933, 12873**

6 JSPF, .41 dia hole. Line tension before set 1300 psi & 1040 after. Max press of 2327 psi w/244 bbls pumped.

**PUMP STAGE 4:**

Sand in formation 419,808 lbs, 100% Prime up & test lines to 9500 psi.  
Equalize/open well @ 1716 psi. Avg Rate: 89.7 bpm, Avg Pressure: 6039 psi.  
Max Rate: 90.4 bpm, Max Pressure: 8661 psi. ISIP:2254 psi.  
Pump Time: 122 mins. Total clean fluid: 9118 bbls, Total slurry volume: 9570 bbls  
Sand pumped: Sand 100: 32,227 lbs, Sand 40/70L 387,525 lbs, TOTAL: 419,752 lbs

**STAGE 5: 12831, 12797, 12732, 12695, 12634, 12574**

6 JSPF, .41 dia hole. Pump dn @ 12 bpm. . Max pressure of 2456 psi w/227 bbls pumped.

**PUMP STAGE 5:**

Sand in formation: 419,808 lbs, 100%, Prime up & test lines to 9500psi.  
Equalize/open well @1907 psi. Ave Rate: 89.3 bpm, Avg pressure:6096 psi  
Max Rate:90.3 bpm, Max Pressure: 8628 psi. ISIP: 2488 psi.  
Pump Time: 120 mins. Total clean fluid:8734 bbls, Total Slurry volume:9187 bbls



Sand pumped: Sand 100:33,159 lbs, Sand 40/70:388,234 lbs, TOTAL: 421,393 lbs

**STAGE 6: 12539, 12513, 12453, 12393, 12333, 12273**

6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max Pressure of 2733 psi w/255 bbls pumped.

**PUMP STAGE 6:**

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

Equalize/open well @ 1779 psi. Ave Rate:85.5 bpm, Ave Pressure: 5702 psi.

Max rate:86.8 bpm, Max Pressure:8634 psi. ISIP:2581 psi.

Pump time:118 mins. Total clean fluid: 8956 bbls, Total Slurry volume:9409 bbls

Sand pumped: sand 100:33,784 lbs, sand 40/70:386,525 lbs. TOTAL:420,309 lbs

**STAGE 7: 12233, 12213, 12153, 12093, 12033. 11973**

6 JSPF, .41 dia hole. Pump dn @ 12 bpm. . Max pressure of 2603 psi w/226 bbls pumped.

**PUMP STAGE 7:**

Sand in formation: 419,808 lbs,101 %, Prime up & test lines to 9500 psi.

Equalize/open hole @1835 psi. Ave rate:90.0 bpm, Ave Pressure:6044 psi

Max rate: 90.0 bpm, Max Pressure:8676 psi. ISIP: 2521 psi.

Pump time:118 mins. Total clean fluid:8891 bbls, Total slurry volume:9346 bbls.

Sand Pumped: Sand 100:32,508 lbs, Sand 40/70: 389,592 lbs, TOTAL:422,100 lbs

**STAGE 8: 11943, 11913, 11853, 11773, 11723, 11673**

6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max pressure of 2370 psi w/171 bbls pumped.

**PUMP STAGE 8:**

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

Equalize/open hole @ 1886 psi. Ave Rate: 85.5 bpm, Ave pressure: 5914 psi

Max Rate: 87.4 bpm, Max pressure: 8545 psi. ISIP: 2496 psi.

Pump time: 118 mins. Total clean fluid: 8798 bbls, Total slurry volume: 9252 bbls

Sand pumped: Sand 100: 33,410 lbs, Sand 40/70: 387,713 lbs. TOTAL 421,123 lbs

**STAGE 9: 11633, 11613, 11550, 11493, 11438, 11373**

6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max pressure of 2577 psi w/187 bbls pumped.

**PUMP STAGE 9:**

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

Equalize/open well @ 1791 psi. Ave Rate: 85.4 bpm, Ave Pressure: 5914 psi.

Max rate: 86.1 bpm, Max pressure: 8262 psi. ISIP: 2469 psi.

Pump time: 118 mins. Total Clean fluid: 8832 bbls, Total slurry volume: 9285 bbls

Sand pumped: Sand 100: 33,266 lbs, Sand 40/70: 387,565 lbs. TOTAL: 420,831 lbs

**STAGE 10: 11300, 11260, 11220, 11180, 11040**

6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max press of 5893 psi w/196 bbls pumped.

**PUMP STAGE 10:**

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

Equalize/open well @ 1903 psi. Ave Rate: 90.0 bpm, Ave Pressure: 5470 psi.

Max Rate: 90.0 bpm, Max pressure: 7332 psi. ISIP: 2603 psi.

Pump time: 118 mins. Total clean fluid: 6669 bbls, Total slurry volume: 6993bbls

Sand pumped: Sand 100: 20,091 lbs, Sand 40/70: 280,457 lbs. TOTAL 300,548 lbs

**STAGE 11: 11110, 11070, 11030, 10990, 10950, 10910**



6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max Press 4319 psi w/152 bbls pumped.

**PUMP STAGE 11:**

Sand in formation: 299,975 lbs, 64%, Prime up and test lines to 9500 psi.

Equalize/open well @ 1777 psi. Ave Rate: 83.1 bpm. Ave Pressure: 6228 psi.

Max rate: 86.2 bpm, Max pressure: 8746 psi. ISIP: 3468 psi.

Pump time: 157 mins. Total clean fluid: 6362 bbls, total slurry volume 6568 bbls.

Sand pumped: Sand 100: 20,963 lbs, Sand 40/70: 170,620 lbs, TOTAL: 191,583 lbs

**STAGE 12: 10870, 10830, 10780, 10725, 10680, 10630**

6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max Pressure of 4948 psi w/151 bbls pmped.

**PUMP STAGE 12:**

Sand in formation: 369,967 lbs, 100% Prime up and test lines to 9500 psi.

Equalize/open well @ 1871 psi. Ave Rate: 85.0 bpm, Ave pressure: 5579 psi

Max rate: 86.0 bpm, Max pressure: 7878 psi, ISIP: 2792 psi.

Pump time: 126 mins, Total clean fluid: 7969 bbls, Total slurry volume: 8367 bbls.

Sand pumped: Sand 100: 23,560 lbs, Sand 40/70: 346,632 lbs, TOTAL: 370,192 lbs.

**STAGE 13: 10595, 10535, 10465, 10395, 10328, 10265**

6 JSPF, .41 dia holle. Pump dn @ 12 bpm. Max pressure of 2618 psi w/113 bbls pumped.

**PUMP STAGE 13:**

Sand in formation: 470,063 lbs, 100%, Prime up & test lines to 9500 psi.

Equalize/open well @ 1886 psi. Ave Rate: 90.0 bpm, Ave Pressure: 5570 psi.

Max Rate: 90.5 bpm, Max Pressure: 8179 psi. ISIP: 2780 psi.

Pump time: 120 mins. Total clean fluid: 9852 bbls, Total slurry volume: 10,358 bbls.

Sand pumped: Sand 100: 32,433 lbs, Sand 40/70: 438,114 lbs TOTAL: 470,547 lbs

**STAGE 14: 10234, 10174, 10115, 10055, 9990, 9934**

6 JSPF, .41 dia hole. Pump down @ 15 bpm. Max press of 2600 psi w/96 bbls pumped.

**PUMP STAGE 14:**

Sand in formation: 470,063 lbs 100%. Prime up & test lines to 9500 psi.

Equalize/open hole W 1843 psi. Ave rate: 84.8 bpm, Ave Press: 5489 psi

Max Rate: 85.4 bpm, Max pressure: 7857 psi. ISIP: 2566 psi.

Pump time: 148 mins. Total clean fluid: 9895 bbls, Total slurry volume: 10,401 bbls.

Sand pumped: Sand 100: 32,569 lbs, Sand 40/70: 437,437 lbs, TOTAL 470,006 lbs.

**STAGE 15: 9904, 9874, 9815, 9750, 9685, 9619**

6 JSPF, .41 dia hole. Pump dn @ 12 bpm. Max press 2426 psi @ 50 bbls pumped.

**PUMP STAGE 15:**

Sand in formation: 419850 lbs, 100%. Prime up & test lines to 9500 psi.

Equalize/open well @ 2013 psi. Ave Rate: 86.0 bpm, Ave Pressure: 5288 psi.

Max Rate: 86.6bpm, Max pressure: 8456 psi, ISIP:2474 psi.

Pump time 134 mins, Total clean fluid: 8846 bbls, Total slurry volume: 9298 bbls

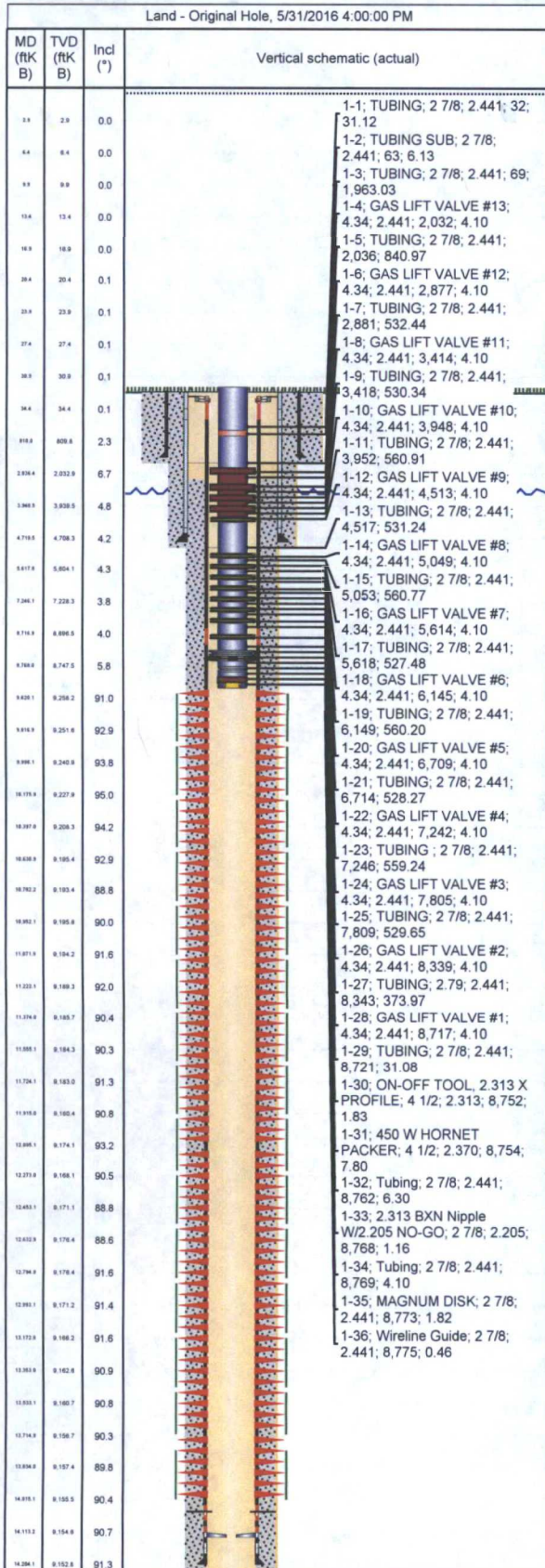
Sand pumped: Sand 100: 33,970 lbs, Sand 40/70: 385,677 lbs, TOTAL 419,647 lbs





# Tubing Summary

Well Name <b>SALADO DRAW EA 18 FED P6 005H</b>	Lease <b>Salado Draw EA 18 Fed P6</b>	Field Name <b>WILDCAT (HOBBS)</b>	Business Unit <b>Mid-Continent</b>	
Ground Elevation (ft) <b>3,205.00</b>	Original RKB Elevation (ft) <b>3,237.60</b>	Current RKB Elevation <b>3,237.60, 12/15/2015</b>	Mud Line Elevation (ft)	Water Depth (ft)
Current KB to Ground (ft) <b>32.60</b>	Current KB to Mud Line (ft)	Current KB to Csg Flange (ft)	Current KB to Tubing Head (ft)	



Tubing Strings										
Tubing Description		Planned Run?		Set Depth (MD) (ftKB)		Set Depth (TVD) (ftKB)				
Tubing		N		8,775.6		8,755.1				
Run Date		Run Job		Pull Date		Pull Job				
5/31/2016		Complete, 4/20/2016 00:00								
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	31.12	32.0	63.1	
1	TUBING SUB	2 7/8	2.441	6.50	L-80	8RD	6.13	63.1	69.3	
63	TUBING	2 7/8	2.441	6.50	L-80	8RD	1,963.03	69.3	2,032.3	
1	GAS LIFT VALVE #13	4.335	2.441			8RD	4.10	2,032.3	2,036.4	
27	TUBING	2 7/8	2.441	6.50	L-80	8RD	840.97	2,036.4	2,877.4	
1	GAS LIFT VALVE #12	4.335	2.441			8RD	4.10	2,877.4	2,881.5	
17	TUBING	2 7/8	2.441	6.50	L-80	8RD	532.44	2,881.5	3,413.9	
1	GAS LIFT VALVE #11	4.335	2.441			8RD	4.10	3,413.9	3,418.0	
17	TUBING	2 7/8	2.441	6.50	L-80	8RD	530.34	3,418.0	3,948.3	
1	GAS LIFT VALVE #10	4.335	2.441			8RD	4.10	3,948.3	3,952.4	
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	560.91	3,952.4	4,513.3	
1	GAS LIFT VALVE #9	4.335	2.441			8RD	4.10	4,513.3	4,517.4	
17	TUBING	2 7/8	2.441	6.50	L-80	8RD	531.24	4,517.4	5,048.7	
1	GAS LIFT VALVE #8	4.335	2.441			8RD	4.10	5,048.7	5,052.8	
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	560.77	5,052.8	5,613.6	
1	GAS LIFT VALVE #7	4.335	2.441			8RD	4.10	5,613.6	5,617.7	
17	TUBING	2 7/8	2.441	6.50	L-80	8RD	527.48	5,617.7	6,145.1	
1	GAS LIFT VALVE #6	4.335	2.441			8RD	4.10	6,145.1	6,149.2	
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	560.20	6,149.2	6,709.4	
1	GAS LIFT VALVE #5	4.335	2.441			8RD	4.10	6,709.4	6,713.5	
17	TUBING	2 7/8	2.441	6.50	L-80	8RD	528.27	6,713.5	7,241.8	
1	GAS LIFT VALVE #4	4.335	2.441			8RD	4.10	7,241.8	7,245.9	
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	559.24	7,245.9	7,805.1	
1	GAS LIFT VALVE #3	4.335	2.441			8RD	4.10	7,805.1	7,809.2	
17	TUBING	2 7/8	2.441	6.50	L-80	8RD	529.65	7,809.2	8,338.9	
1	GAS LIFT VALVE #2	4.335	2.441			8TRD	4.10	8,338.9	8,343.0	
12	TUBING	2.785	2.441	6.50	L-80	8RD	373.97	8,343.0	8,717.0	
1	GAS LIFT VALVE #1	4.335	2.441			8RD	4.10	8,717.0	8,721.1	
1	TUBING	2 7/8	2.441	6.50	L-80	8RD	31.08	8,721.1	8,752.1	
1	ON-OFF TOOL, 2.313 X PROFILE	4 1/2	2.313			8RD	1.83	8,752.1	8,754.0	
1	450 W HORNET PACKER	4 1/2	2.370			8RD	7.80	8,754.0	8,761.8	
1	Tubing	2 7/8	2.441	6.40	L-80	8RD	6.30	8,761.8	8,768.1	





# Tubing Summary

Well Name <b>SALADO DRAW EA 18 FED P6 005H</b>	Lease <b>Salado Draw EA 18 Fed P6</b>	Field Name <b>WILDCAT (HOBBS)</b>	Business Unit <b>Mid-Continent</b>	
Ground Elevation (ft) <b>3,205.00</b>	Original RKB Elevation (ft) <b>3,237.60</b>	Current RKB Elevation <b>3,237.60, 12/15/2015</b>	Mud Line Elevation (ft)	Water Depth (ft)
Current KB to Ground (ft) <b>32.60</b>	Current KB to Mud Line (ft)	Current KB to Csg Flange (ft)	Current KB to Tubing Head (ft)	

Land - Original Hole, 5/31/2016 4:00:00 PM			
MD (ftK B)	TVD (ftK B)	Incl (°)	Vertical schematic (actual)
2.9	2.9	0.0	
4.4	4.4	0.0	
6.9	6.9	0.0	
13.4	13.4	0.0	
16.9	16.9	0.0	
20.4	20.4	0.1	
23.9	23.9	0.1	
27.4	27.4	0.1	
30.9	30.9	0.1	
34.4	34.4	0.1	
89.9	89.9	2.3	
200.4	200.9	6.7	
336.9	339.5	4.8	
478.9	478.3	4.2	
587.9	586.1	4.3	
726.1	722.3	3.8	
876.9	866.5	4.0	
976.9	974.5	5.8	
1026.1	925.2	91.0	
1076.9	926.8	92.9	
1096.1	924.9	93.8	
1076.9	927.9	95.0	
1026.1	926.3	94.2	
1006.9	916.4	92.9	
1076.2	916.4	88.8	
1096.1	916.8	90.0	
1107.9	916.2	91.6	
1120.1	916.3	92.0	
1126.9	916.7	90.4	
1106.1	916.3	90.3	
1126.1	916.0	91.3	
1116.9	916.4	90.8	
1096.1	917.1	93.2	
1026.9	916.1	90.5	
1006.1	917.1	88.8	
1002.9	917.4	88.6	
1026.9	917.4	91.6	
1006.1	917.2	91.4	
1012.9	916.2	91.6	
1006.9	916.6	90.9	
1006.1	916.7	90.8	
1026.9	916.7	90.3	
1006.9	915.4	89.8	
1006.1	915.5	90.4	
1011.2	915.6	90.7	
1006.1	915.8	91.3	

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
1	2.313 BXN Nipple W/2.205 NO-GO	2 7/8	2.205			8RD	1.16	8,768.1	8,769.2
1	Tubing	2 7/8	2.441	6.40	L-80	8RD	4.10	8,769.2	8,773.3
1	MAGNUM DISK	2 7/8	2.441				1.82	8,773.3	8,775.2
1	Wireline Guide	2 7/8	2.441			8RD	0.46	8,775.2	8,775.6
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)		