Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD
Hobbs

HOBBS OCD
OCT 24 2016
RECEIVED

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No.
NMNM118722

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
SD WE 14 FED P7 4H

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

9. API Well No.
30-025-43087-00-X1

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

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

10. Field and Pool, or Exploratory
JENNINGS

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

11. County or Parish, and State
LEA COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Drilling Operations
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

04/18/2016: SPUD WELL @ 18:30 HRS. DRILL SURFACE HOLE FR 112-348, 840.

04/19/2016: RUN 13 3/8",54.5#,J-55,STC CSG SET @ 830'. FC @ 785'.
PRESS LINES TO 3500PSI. PUMP 40 BBLS SPACER @ 8.3PPG. MIX & PUMP 960 SX CL C CMT @ 14.8PPG. BUMP PLUG W/534PSI OVER FINAL CIRC PRESS. FULL RETURNS THROUGHOUT JOB. FINAL CIRC PRESS PRIOR TO BUMPING PLUG 350PSI @ 2.1BPM. 110 BBLS CMT TO SURF. CMT IN PLACE @ 13:15.
05/03/2016: TEST BOPE TO 250L/5000H. TEST ANNULAR TO 250L/3500H. TAG CMT @ 770'. PRESS TEST 13 3/8" SURF CSG TO 1500PSI FOR 30 MINS. DRILL 10'NEW FORMATION.

05/04/2016: DRILL 850-1125, 1450, 1805, 2250, 2359, 2925, 3492, 3507, 3880, 4210, 4567.

05/06/2016: RUN 9 5/8",40#,HCK-55,LTC INTERMEDIATE CSG & SET @ 4557'. FC @ 4469'. PRESS LINES TO

See ATTACHED

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

Electronic Submission #353227 verified by the BLM Well Information System
For CHEVRON USA INC, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 09/30/2016 (16PP1240SE)

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

Signature (Electronic Submission) — Date 09/30/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

Approved By _____ Title _____ Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #353227 that would not fit on the form

32. Additional remarks, continued

500L/4500H. PUMP 30 BBLS DYED FW SPACER.
MIX & PUMP 1055 SX LEAD @ 11.9PPG, 462 SX TAIL @ 14.8PPG. BUMP PLUG W/500PSI OVER FINAL CIRC PRESS @ 1700PSI. FULL RETURNS THROUGHOUT JOB. FINAL CIRC PRESSURE PRIOR TO BUMPING PLUG 1190 PSI @ 3.9BPM. 190 BBLS/439 SX OF CMT RETURNED TO SURFACE. CMT IN PLACE @ 00:15 HRS 05/07/2016. TAG CMT @ 4455. PRESS TEST 9 5/8" INTERMEDIATE CSG TO 2800PSI FOR 30 MINS.

05/07/2016: DRILL 10', NEW FORMATION. DRILL 4577-4744, 4922, 6000, 7077, 7493, 7759, 8026, 8380, 8567, 8580, 8715, 8919, 9295, 9362, 9445, 9626, 9739, 10451, 10540, 11070, 11310, 11987, 12051, 12622, 13775, 13816. (***TD REACHED ON 05/13/2016).

05/15/2016: RUN 5 1/2:,20#,HCP-110 TXP BTC PRODUCTION CSG & SET @ 13,800'. FC @ 13705, RSI TOOL @ 13645, MRKR JT @ 8536.
PRESS TEST 500L/6500H. CMT W/624 SX CL H LEAD @ 6.5PBM,11.5PPG, 905 SX CL H LEAD @ 6.6BPM @ 12.5PPG & 120 SX CL H TAIL @ 5.5BPM @ 15PPG. FINAL CIRC PRESS 1964PSI @ 3.4BPM. BUMP PLUG 536 PSI OVER FCP @ 2500PSI. TOC @ 3270'. RETURNS SEEN DURING JOB. CMT IN PLACE @ 14:00 HRS. TEST TO 5000PSI FOR 15 MINS. GOOD.
RIG DOWN. RELEASE RIG.

Phoenix Technology Services
SURVEY DATA CERTIFICATION

PHOENIX TECHNOLOGY SERVICES

PHOENIX JOB NUMBER	60048	OPERATOR	Chevron
WELL NAME	SD WE 14 FED P7 4H	COUNTY & STATE	Lea County, NM
API WELL NUMBER	30-025-43087	PROPOSED DIRECTION	3.33

TIE-IN DATA

MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
815.00 ft	814.88 ft	1.8°	260.0°	5.02 S	8.68 W	Teledrift

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
4-May-16	949 ft	1.8°	271.3°

SURVEY INSTRUMENT TYPE
Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
9-May-16	8,510 ft	1.0°	214.1°

TO THE BEST OF MY KNOWLEDGE I CERTIFY THIS SURVEY DATA TO BE TRUE AND CORRECT.

PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH
9-May-16	8,567 ft	1.0°	214.1°

Benjamin J. Maulding
PRINT YOUR NAME ABOVE

Benjamin Maulding
SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	6.60
DECLINATION OR GRID	GRID

Monday, May 09, 2016
TODAY'S DATE

MWD SUPERVISOR 1	Robert Brewer	DIRECTIONAL DRILLER 1	Casey Tubbe
MWD SUPERVISOR 2	Benjamin Maulding	DIRECTIONAL DRILLER 2	Monte Gordon

12329 Cutten Rd., Houston, Texas 77066 (713)337-0600 (Voice), (713)337-0599 (Fax)

Chevron

Chevron

Lea County, NM (NAD27 NME)
SD WE 14 Fed
P7 4H

OH / Job 60048

Survey: Phoenix MWD Surveys

Standard Survey Report

09 May, 2016

PHOENIX
TECHNOLOGY SERVICES

Chevron

Phoenix Technology Services
Survey Report

PHOENIX TECHNOLOGY SERVICES

Company:	Chevron	**Local Co-ordinate Reference:**	Well P7 4H
Project:	Lea County, NM (NAD27 NME)	**TVD Reference:**	RKB @ 3198.00usft (Pace X30)
Site:	SD WE 14 Fed	**MD Reference:**	RKB @ 3198.00usft (Pace X30)
Well:	P7 4H	**North Reference:**	Grid
Wellbore:	OH / Job 60048	**Survey Calculation Method:**	Minimum Curvature
Design:	Surveys (Pace X30)	**Database:**	Compass 5000 GCR

Project	Lea County, NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	SD WE 14 Fed				
Site Position:		**Northing:**	377,311.00 usft	**Latitude:**	32° 2' 7.83756 N
From:	Map	**Easting:**	711,217.00 usft	**Longitude:**	103° 39' 6.19467 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.36 °

Well	P7 4H					
Well Position	**+N/-S**	0.00 usft	**Northing:**	377,548.00 usft	**Latitude:**	32° 2' 9.92717 N
	+E/-W	0.00 usft	**Easting:**	715,273.00 usft	**Longitude:**	103° 38' 19.05948 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	0.00 usft	**Ground Level:**	3,165.00 usft

Wellbore	OH / Job 60048				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	HDGM	4/18/2016	6.97	59.75	48,036

Design	Surveys (Pace X30)				
Audit Notes:					
Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.00	0.00	0.00	3.33	

Survey Program **Date** 5/9/2016

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
185.00	815.00	Teledrift MWD Surveys (OH / Job 60048)	MWD	MWD - Standard
949.00	8,567.00	Phoenix MWD Surveys (OH / Job 60048)	PHX+MWD+HDGM	PHX+OWSG MWD + HDGM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
815.00	1.80	260.00	814.88	-5.02	-8.68	-5.51	0.00	0.00	0.00
Tie-in to Teledrift Surveys									
949.00	1.80	271.30	948.81	-5.34	-12.86	-6.07	0.26	0.00	8.43
First Phoenix MWD Survey									
1,126.00	1.60	175.40	1,125.77	-7.74	-15.44	-8.62	1.43	-0.11	-54.18
1,303.00	1.80	127.40	1,302.70	-11.89	-13.04	-12.63	0.79	0.11	-27.12
1,481.00	3.20	76.80	1,480.54	-12.45	-5.98	-12.78	1.40	0.79	-28.43
1,658.00	3.80	77.00	1,657.23	-10.07	4.25	-9.81	0.23	0.23	0.11
1,835.00	6.50	68.40	1,833.53	-5.13	18.98	-4.02	1.69	1.64	-4.86

Chevron

Phoenix Technology Services

Survey Report

PHOENIX TECHNOLOGY SERVICES

Company:	Chevron	**Local Co-ordinate Reference:**	Well P7 4H
Project:	Lea County, NM (NAD27 NME)	**TVD Reference:**	RKB @ 3196.00usft (Pace X30)
Site:	SD WE 14 Fed	**MD Reference:**	RKB @ 3196.00usft (Pace X30)
Well:	P7 4H	**North Reference:**	Grid
Wellbore:	OH / Job 60048	**Survey Calculation Method:**	Minimum Curvature
Design:	Surveys (Pace X30)	**Database:**	Compass 5000 GCR

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,014.00	8.30	78.20	2,011.42	0.60	38.02	2.81	0.62	-0.11	5.47
2,192.00	8.60	81.00	2,188.29	4.20	57.68	7.55	0.24	0.17	1.57
2,370.00	8.80	87.60	2,365.08	6.24	78.31	10.78	0.45	0.11	3.71
2,547.00	5.50	92.20	2,541.05	6.36	97.26	12.00	0.78	-0.73	2.60
2,724.00	5.40	93.30	2,717.25	5.55	114.05	12.17	0.08	-0.06	0.62
2,901.00	5.40	91.20	2,893.47	4.90	130.69	12.48	0.11	0.00	-1.19
3,079.00	5.50	91.00	3,070.66	4.57	147.59	13.14	0.06	0.06	-0.11
3,257.00	5.90	88.20	3,247.78	4.71	165.27	14.31	0.27	0.22	-1.57
3,434.00	6.60	87.10	3,423.73	5.51	184.52	16.23	0.40	0.40	-0.62
3,611.00	5.50	88.00	3,599.74	6.32	203.15	18.12	0.62	-0.62	0.51
3,790.00	5.40	86.50	3,777.93	6.70	220.15	19.48	0.10	-0.06	0.84
3,967.00	5.80	90.40	3,954.09	6.71	237.42	20.49	0.23	0.23	0.51
4,144.00	6.10	89.30	4,130.13	6.76	255.77	21.61	0.18	0.17	-0.62
4,322.00	6.80	95.70	4,307.01	5.83	275.71	21.84	0.56	0.39	3.60
4,499.00	6.90	95.40	4,482.75	3.79	296.72	21.02	0.06	0.06	-0.17
4,509.00	6.90	96.10	4,492.67	3.67	297.92	20.97	0.84	0.00	7.00
4,598.00	6.70	96.60	4,581.05	2.50	308.39	20.42	0.23	-0.22	0.56
4,776.00	4.20	100.10	4,758.23	0.16	325.13	19.06	1.42	-1.40	1.97
4,953.00	1.20	100.50	4,935.01	-1.31	333.33	18.06	1.69	-1.69	0.23
5,131.00	1.10	304.30	5,113.00	-0.69	333.75	18.71	1.26	-0.06	-87.75
5,308.00	1.20	284.20	5,289.96	0.72	330.55	19.93	0.23	0.06	-11.36
5,485.00	1.50	284.30	5,466.91	1.75	326.51	20.72	0.17	0.17	0.06
5,662.00	1.60	282.00	5,643.85	2.84	321.85	21.54	0.07	0.06	-1.30
5,839.00	1.10	306.60	5,820.80	4.36	318.07	22.84	0.43	-0.28	13.90
6,016.00	0.90	291.00	5,997.78	5.88	315.41	24.20	0.19	-0.11	-8.81
6,194.00	0.90	308.80	6,175.75	7.25	313.01	25.43	0.16	0.00	10.00
6,371.00	0.90	310.40	6,352.73	9.02	310.87	27.08	0.01	0.00	0.90
6,549.00	1.00	285.40	6,530.71	10.34	308.31	28.24	0.24	0.06	-14.04
6,726.00	0.60	265.30	6,707.69	10.68	305.90	28.44	0.27	-0.23	-11.36
6,904.00	1.00	253.50	6,885.67	10.16	303.48	27.78	0.24	0.22	-6.63
7,082.00	1.00	243.90	7,063.65	9.03	300.59	26.49	0.09	0.00	-5.39
7,259.00	1.00	257.20	7,240.62	8.01	297.70	25.30	0.13	0.00	7.51
7,436.00	0.60	239.60	7,417.60	7.20	295.39	24.36	0.26	-0.23	-9.94
7,614.00	0.30	203.40	7,595.60	6.30	294.41	23.40	0.22	-0.17	-20.34
7,791.00	0.30	210.40	7,772.59	5.48	293.99	22.55	0.02	0.00	3.95
7,969.00	0.50	212.40	7,950.59	4.42	293.33	21.46	0.11	0.11	1.12
8,146.00	0.80	210.00	8,127.58	2.70	292.30	19.68	0.17	0.17	-1.36
8,323.00	1.20	211.50	8,304.55	0.05	290.72	16.94	0.23	0.23	0.85
8,500.00	1.20	211.80	8,481.51	-3.11	288.77	13.68	0.00	0.00	0.17
8,510.00	1.00	214.10	8,491.51	-3.27	288.67	13.51	2.05	-2.00	23.00
Final Phoenix MWD Survey									
8,567.00	1.00	214.10	8,548.50	-4.09	288.11	12.66	0.00	0.00	0.00
Projection to TD									

Chevron

Phoenix Technology Services
Survey Report

PHOENIX TECHNOLOGY SERVICES

Company:	Chevron	**Local Co-ordinate Reference:**	Well P7 4H
Project:	Lea County, NM (NAD27 NME)	**TVD Reference:**	RKB @ 3198.00usft (Pace X30)
Site:	SD WE 14 Fed	**MD Reference:**	RKB @ 3198.00usft (Pace X30)
Well:	P7 4H	**North Reference:**	Grid
Wellbore:	OH / Job 60048	**Survey Calculation Method:**	Minimum Curvature
Design:	Surveys (Pace X30)	**Database:**	Compass 5000 GCR

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
815.00	814.88	-5.02	-8.88	Tie-in to Teledrift Surveys
949.00	948.81	-5.34	-12.86	First Phoenix MWD Survey
8,510.00	8,491.51	-3.27	288.67	Final Phoenix MWD Survey
8,567.00	8,548.50	-4.09	288.11	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

Chevron

Directional Survey

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

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

Wellbore Name	Parent Wellbore	Min Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole	Original Hole	8,567.0	359.66
Northing (Y) (ft)	Easting (X) (ft)	UTM Grid Zone	

Date	Definitive?	Description	Planned?
4/18/2016	Y	MWD	N

MD Tie In (ftKB)	TVDTie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (ft)	EWTie In (ft)

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unused data
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Magn MWD	Phoenix Directional	0.00	0.00	0.00	N
165	0.30	263.00	165.00	-0.05	-0.43	-0.05	0.18	Magn MWD	Phoenix Directional	0.18	0.43	159.39	N
255	0.10	28.00	255.00	-0.01	-0.63	-0.01	0.41	Magn MWD	Phoenix Directional	-0.22	0.63	-261.11	N
343	0.50	243.00	343.00	-0.12	-0.93	-0.11	0.66	Magn MWD	Phoenix Directional	0.45	0.94	244.52	N
436	0.60	249.00	435.99	-0.46	-1.75	-0.47	0.12	Magn MWD	Phoenix Directional	0.11	1.81	6.45	N
532	1.00	223.00	531.98	-1.27	-2.79	-1.25	0.55	Magn MWD	Phoenix Directional	0.42	3.06	-27.08	N
625	1.40	239.00	624.96	-2.45	-4.32	-2.42	0.56	Magn MWD	Phoenix Directional	0.43	4.96	17.20	N
717	1.80	247.00	716.93	-3.59	-6.61	-3.55	0.50	Magn MWD	Phoenix Directional	0.43	7.52	8.70	N
815	1.80	260.00	814.88	-4.46	-9.54	-4.40	0.42	Magn MWD	Phoenix Directional	0.00	10.53	13.27	N
949	1.80	271.30	948.81	-4.78	-13.72	-4.70	0.26	Magn MWD	Phoenix Directional	0.00	14.53	8.43	N
1,126	1.60	175.40	1,125.76	-7.18	-16.30	-7.08	1.43	Magn MWD	Phoenix Directional	-0.11	17.81	-54.18	N
1,303	1.80	127.40	1,302.70	-11.33	-13.89	-11.25	0.79	Magn MWD	Phoenix Directional	0.11	17.93	-27.12	N
1,481	3.20	76.80	1,480.54	-11.89	-6.83	-11.85	1.40	Magn MWD	Phoenix Directional	0.79	13.72	-28.43	N
1,658	3.60	77.00	1,657.23	-9.52	3.39	-9.54	0.23	Magn MWD	Phoenix Directional	0.23	10.10	0.11	N
1,835	5.50	68.40	1,833.53	-4.58	18.12	-4.68	1.09	Magn MWD	Phoenix Directional	1.64	18.69	-4.86	N
2,014	8.30	78.20	2,011.41	1.18	37.16	0.94	0.82	Magn MWD	Phoenix Directional	-0.11	37.18	5.47	N
2,192	8.60	81.00	2,188.29	4.76	56.82	4.42	0.24	Magn MWD	Phoenix Directional	0.17	57.02	1.57	N
2,370	6.80	87.80	2,365.08	6.80	77.45	6.34	0.45	Magn MWD	Phoenix Directional	0.11	77.75	3.71	N
2,547	5.50	92.20	2,541.05	6.91	96.40	6.34	0.78	Magn MWD	Phoenix Directional	-0.73	96.65	2.60	N
2,724	5.40	93.30	2,717.25	6.11	113.19	5.44	0.06	Magn MWD	Phoenix Directional	-0.06	113.36	0.62	N
2,901	5.40	91.20	2,893.47	5.45	129.83	4.68	0.11	Magn MWD	Phoenix Directional	0.00	129.95	-1.19	N
3,079	5.50	91.00	3,070.66	5.13	146.74	4.26	0.06	Magn MWD	Phoenix Directional	0.06	146.82	-0.11	N
3,257	5.90	88.20	3,247.78	5.27	164.41	4.29	0.27	Magn MWD	Phoenix Directional	0.22	164.49	-1.57	N
3,434	6.60	87.10	3,423.73	6.07	183.66	4.98	0.40	Magn MWD	Phoenix Directional	0.40	183.76	-0.62	N
3,611	5.50	86.00	3,599.74	6.88	202.30	5.68	0.62	Magn MWD	Phoenix Directional	-0.62	202.41	0.51	N
3,790	5.40	89.50	3,777.93	7.25	219.29	5.95	0.10	Magn MWD	Phoenix Directional	-0.06	219.41	0.84	N
3,967	5.80	90.40	3,954.09	7.28	236.58	6.86	0.23	Magn MWD	Phoenix Directional	0.23	236.68	0.51	N

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Directional Survey

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

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

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unused data
4,144	6.10	89.30	4,130.13	7.32	254.91	5.80	0.18	Magn MWD	Phoenix Directional	0.17	255.02	-0.62	N
4,322	6.80	95.70	4,307.01	6.38	274.85	4.75	0.56	Magn MWD	Phoenix Directional	0.39	274.93	3.60	N
4,499	6.90	95.40	4,482.75	4.34	295.87	2.59	0.06	Magn MWD	Phoenix Directional	0.06	295.90	-0.17	N
4,509	6.90	96.10	4,492.67	4.22	297.06	2.46	0.84	Magn MWD	Phoenix Directional	0.00	297.09	7.00	N
4,598	6.70	96.60	4,581.05	3.06	307.53	1.23	0.23	Magn MWD	Phoenix Directional	-0.22	307.55	0.56	N
4,776	4.20	100.10	4,758.23	0.72	324.27	-1.20	1.42	Magn MWD	Phoenix Directional	-1.40	324.27	1.97	N
4,953	1.20	100.50	4,935.01	-0.75	332.47	-2.73	1.69	Magn MWD	Phoenix Directional	-1.69	332.48	0.23	N
5,131	1.10	304.30	5,113.00	-0.13	332.90	-2.11	1.26	Magn MWD	Phoenix Directional	-0.06	332.90	114.49	N
5,308	1.20	284.20	5,289.96	1.28	329.70	-0.67	0.23	Magn MWD	Phoenix Directional	0.06	329.70	-11.36	N
5,485	1.50	284.30	5,466.91	2.31	325.65	0.38	0.17	Magn MWD	Phoenix Directional	0.17	325.66	0.06	N
5,662	1.80	282.00	5,643.85	3.39	320.99	1.49	0.07	Magn MWD	Phoenix Directional	0.06	321.01	-1.30	N
5,839	1.10	306.60	5,820.80	4.92	317.21	3.04	0.43	Magn MWD	Phoenix Directional	-0.28	317.25	13.90	N
6,016	0.90	291.00	5,997.77	6.43	314.55	4.57	0.19	Magn MWD	Phoenix Directional	-0.11	314.61	-8.81	N
6,194	0.90	308.80	6,175.75	7.81	312.15	5.96	0.16	Magn MWD	Phoenix Directional	0.00	312.25	10.00	N
6,371	0.90	310.40	6,352.73	9.58	310.01	7.74	0.01	Magn MWD	Phoenix Directional	0.00	310.16	0.90	N
6,549	1.00	285.40	6,530.71	10.90	307.45	9.08	0.24	Magn MWD	Phoenix Directional	0.06	307.64	-14.04	N
6,726	0.60	265.30	6,707.69	11.23	305.04	9.42	0.27	Magn MWD	Phoenix Directional	-0.23	305.24	-11.36	N
6,904	1.00	253.50	6,885.67	10.72	302.62	8.92	0.24	Magn MWD	Phoenix Directional	0.22	302.81	-6.63	N
7,082	1.00	243.90	7,063.65	9.59	299.74	7.81	0.09	Magn MWD	Phoenix Directional	0.00	299.89	-5.39	N
7,259	1.00	257.20	7,240.62	8.57	296.84	6.81	0.13	Magn MWD	Phoenix Directional	0.00	296.97	7.51	N
7,436	0.60	239.50	7,417.60	7.76	294.54	6.01	0.26	Magn MWD	Phoenix Directional	-0.23	294.64	-9.94	N
7,614	0.30	203.40	7,595.60	6.86	293.55	5.12	0.22	Magn MWD	Phoenix Directional	-0.17	293.63	-20.34	N
7,791	0.30	210.40	7,772.59	6.03	293.13	4.30	0.02	Magn MWD	Phoenix Directional	0.00	293.19	3.95	N
7,969	0.50	212.40	7,950.59	4.98	292.48	3.24	0.11	Magn MWD	Phoenix Directional	0.11	292.52	1.12	N
8,146	0.80	210.00	8,127.58	3.26	291.45	1.53	0.17	Magn MWD	Phoenix Directional	0.17	291.46	-1.36	N
8,323	1.20	211.50	8,304.55	0.60	289.86	-1.12	0.23	Magn MWD	Phoenix Directional	0.23	289.86	0.85	N
8,500	1.20	211.80	8,481.51	-2.58	287.91	-4.26	0.00	Magn MWD	Phoenix Directional	0.00	287.93	0.17	N
8,510	1.00	214.10	8,491.51	-2.71	287.81	-4.42	2.05	Magn MWD	Phoenix Directional	-2.00	287.82	23.00	N
8,560	1.02	211.55	8,541.50	-3.45	287.33	-5.16	0.10	Magn MWD	Phoenix Directional	0.04	287.35	-5.10	N
8,648	11.65	8.37	8,628.94	4.70	288.22	2.99	14.31	Magn MWD	Baker Hughes	12.08	288.26	-230.89	N

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Directional Survey

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

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

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unused data
8,737	24.67	4.66	8,713.33	32.22	291.11	30.49	14.87	Magn MWD	Baker Hughes	14.83	292.89	-3.94	N
8,826	35.19	357.20	8,790.38	76.48	291.44	74.75	12.55	Magn MWD	Baker Hughes	11.82	301.30	395.89	N
8,914	43.82	349.40	8,858.25	131.89	284.58	130.20	11.30	Magn MWD	Baker Hughes	9.81	313.65	-8.86	N
8,959	47.48	353.20	8,889.71	163.69	279.74	162.03	10.13	Magn MWD	Baker Hughes	8.13	324.12	8.44	N
9,004	47.06	359.40	8,920.26	196.84	277.61	194.99	10.18	Magn MWD	Baker Hughes	-0.93	340.20	13.78	N
9,048	45.80	2.43	8,950.85	228.46	278.10	226.80	5.98	Magn MWD	Baker Hughes	-3.32	359.61	-811.30	N
9,093	47.70	0.84	8,981.54	261.18	279.03	259.50	5.33	Magn MWD	Baker Hughes	4.67	382.18	-3.53	N
9,137	55.41	359.48	9,008.87	295.60	279.10	293.94	17.89	Magn MWD	Baker Hughes	17.52	408.54	815.05	N
9,181	63.10	357.75	9,031.35	333.37	278.18	331.72	17.79	Magn MWD	Baker Hughes	17.48	434.17	-3.89	N
9,226	71.03	356.18	9,048.88	374.72	275.96	373.08	17.91	Magn MWD	Baker Hughes	17.62	465.36	-3.49	N
9,270	75.36	357.35	9,061.59	416.75	273.58	415.13	10.16	Magn MWD	Baker Hughes	9.84	498.53	2.66	N
9,314	79.63	358.28	9,071.12	459.68	271.94	458.06	9.92	Magn MWD	Baker Hughes	9.70	534.09	2.11	N
9,359	87.84	358.34	9,076.03	504.35	270.62	502.74	18.24	Magn MWD	Baker Hughes	18.24	572.37	0.13	N
9,403	89.35	359.76	9,077.10	548.33	269.89	546.72	4.71	Magn MWD	Baker Hughes	3.43	611.15	3.23	N
9,447	89.32	0.51	9,077.82	592.33	270.00	590.71	1.71	Magn MWD	Baker Hughes	-0.07	650.98	-816.48	N
9,536	89.66	1.22	9,078.41	681.31	271.34	679.69	0.88	Magn MWD	Baker Hughes	0.38	733.36	0.80	N
9,625	90.15	4.03	9,078.58	770.21	275.42	768.56	3.20	Magn MWD	Baker Hughes	0.55	817.97	3.16	N
9,714	90.43	3.01	9,078.10	859.04	280.88	857.36	1.19	Magn MWD	Baker Hughes	0.31	903.79	-1.15	N
9,802	90.74	1.66	9,077.21	946.98	284.49	945.25	1.54	Magn MWD	Baker Hughes	0.35	988.77	-1.50	N
9,892	90.25	357.78	9,076.43	1,036.94	284.07	1,035.23	4.38	Magn MWD	Baker Hughes	-0.54	1,075.14	395.66	N
9,981	90.49	357.67	9,075.85	1,125.86	280.84	1,124.18	0.30	Magn MWD	Baker Hughes	0.27	1,160.29	-0.12	N
10,069	90.25	3.69	9,075.28	1,213.82	281.58	1,212.12	6.85	Magn MWD	Baker Hughes	-0.27	1,246.05	-402.25	N
10,158	90.59	2.48	9,074.63	1,302.68	286.37	1,300.96	1.41	Magn MWD	Baker Hughes	0.38	1,333.79	-1.36	N
10,247	90.48	3.70	9,073.82	1,391.55	291.17	1,389.80	1.38	Magn MWD	Baker Hughes	-0.15	1,421.88	1.37	N
10,336	89.66	5.54	9,073.72	1,480.25	296.34	1,478.46	2.25	Magn MWD	Baker Hughes	-0.90	1,510.02	2.07	N
10,425	89.75	2.85	9,074.18	1,569.01	304.85	1,567.17	3.02	Magn MWD	Baker Hughes	0.10	1,598.35	-3.02	N
10,513	89.78	359.49	9,074.54	1,656.97	306.65	1,655.13	3.82	Magn MWD	Baker Hughes	0.03	1,685.11	405.27	N
10,602	89.88	359.49	9,074.81	1,745.97	305.85	1,744.13	0.11	Magn MWD	Baker Hughes	0.11	1,772.55	0.00	N
10,690	89.85	1.38	9,075.01	1,833.96	306.52	1,832.11	2.15	Magn MWD	Baker Hughes	-0.03	1,859.40	-406.94	N
10,779	89.88	1.44	9,075.22	1,922.94	308.71	1,921.07	0.08	Magn MWD	Baker Hughes	0.03	1,947.56	0.07	N

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Directional Survey

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3,165.00	3,197.60	3,197.60, 3/28/2016		

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unused data
10,868	89.60	359.21	9,075.63	2,011.93	309.22	2,010.06	2.53	Magn MWD	Baker Hughes	-0.31	2,035.55	401.99	N
10,956	89.78	358.10	9,076.10	2,099.90	307.15	2,098.04	1.28	Magn MWD	Baker Hughes	0.20	2,122.25	-1.26	N
11,044	90.09	358.40	9,076.20	2,187.86	304.46	2,186.02	0.49	Magn MWD	Baker Hughes	0.35	2,208.94	0.34	N
11,133	90.12	358.64	9,076.04	2,276.83	302.16	2,275.00	0.27	Magn MWD	Baker Hughes	0.03	2,296.79	0.27	N
11,222	90.28	359.25	9,075.73	2,365.81	300.53	2,363.99	0.72	Magn MWD	Baker Hughes	0.18	2,384.83	0.70	N
11,310	90.18	2.35	9,075.38	2,453.79	301.77	2,451.96	3.51	Magn MWD	Baker Hughes	-0.11	2,472.28	-405.58	N
11,399	90.00	0.79	9,075.24	2,542.76	304.21	2,540.91	1.76	Magn MWD	Baker Hughes	-0.20	2,560.89	-1.75	N
11,487	90.03	359.74	9,075.21	2,630.76	304.62	2,628.90	1.19	Magn MWD	Baker Hughes	0.03	2,648.33	407.90	N
11,576	90.06	358.91	9,075.14	2,719.75	303.57	2,717.90	0.93	Magn MWD	Baker Hughes	0.03	2,736.64	-0.93	N
11,665	90.09	358.53	9,075.03	2,808.73	301.58	2,806.89	0.43	Magn MWD	Baker Hughes	0.03	2,824.87	-0.43	N
11,754	90.06	357.75	9,074.91	2,897.68	298.69	2,895.86	0.88	Magn MWD	Baker Hughes	-0.03	2,913.03	-0.88	N
11,842	89.97	359.01	9,074.89	2,985.64	296.20	2,983.83	1.44	Magn MWD	Baker Hughes	-0.10	3,000.30	1.43	N
11,931	90.00	0.40	9,074.91	3,074.64	295.74	3,072.83	1.58	Magn MWD	Baker Hughes	0.03	3,088.83	-402.93	N
12,020	89.94	0.24	9,074.96	3,163.64	296.24	3,161.82	0.19	Magn MWD	Baker Hughes	-0.07	3,177.48	-0.18	N
12,109	89.88	0.86	9,075.10	3,252.63	297.10	3,250.81	0.70	Magn MWD	Baker Hughes	-0.07	3,266.17	0.70	N
12,198	90.00	2.15	9,075.19	3,341.60	299.43	3,339.76	1.46	Magn MWD	Baker Hughes	0.13	3,354.99	1.45	N
12,286	89.91	2.45	9,075.26	3,429.53	302.96	3,427.67	0.36	Magn MWD	Baker Hughes	-0.10	3,442.89	0.34	N
12,375	89.97	4.04	9,075.35	3,518.38	308.00	3,516.49	1.79	Magn MWD	Baker Hughes	0.07	3,531.84	1.79	N
12,464	89.94	2.13	9,075.42	3,607.25	312.79	3,605.33	2.15	Magn MWD	Baker Hughes	0.00	3,620.79	0.00	N
12,464	89.94	2.13	9,075.42	3,607.25	312.79	3,605.33	2.15	Magn MWD	Baker Hughes	-0.03	3,620.79	-2.15	N
12,553	89.97	358.44	9,075.49	3,696.23	313.23	3,694.31	4.15	Magn MWD	Baker Hughes	0.00	3,709.48	0.00	N
12,553	89.97	358.44	9,075.49	3,696.23	313.23	3,694.31	4.15	Magn MWD	Baker Hughes	0.03	3,709.48	400.35	N
12,641	90.00	356.80	9,075.52	3,784.15	309.58	3,782.25	1.86	Magn MWD	Baker Hughes	0.03	3,796.80	-1.86	N
12,641	90.00	356.80	9,075.52	3,784.15	309.58	3,782.25	1.86	Magn MWD	Baker Hughes	0.00	3,796.80	0.00	N
12,730	89.97	355.00	9,075.54	3,872.92	303.22	3,871.06	2.02	Magn MWD	Baker Hughes	-0.03	3,884.78	-2.02	N
12,730	89.97	355.00	9,075.54	3,872.92	303.22	3,871.06	2.02	Magn MWD	Baker Hughes	0.00	3,884.78	0.00	N
12,818	89.85	354.17	9,075.68	3,960.53	294.91	3,958.71	0.95	Magn MWD	Baker Hughes	0.00	3,971.49	0.00	N
12,818	89.85	354.17	9,075.68	3,960.53	294.91	3,958.71	0.95	Magn MWD	Baker Hughes	-0.14	3,971.49	-0.94	N
12,908	90.00	354.39	9,075.80	4,050.08	285.94	4,048.31	0.30	Magn MWD	Baker Hughes	0.00	4,060.15	0.00	N
12,908	90.00	354.39	9,075.80	4,050.08	285.94	4,048.31	0.30	Magn MWD	Baker Hughes	0.17	4,060.15	0.24	N

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Directional Survey

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3,165.00	3,197.60	3,197.60, 3/28/2016		

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unusable data
12,996	89.91	355.57	9,075.86	4,137.74	278.24	4,136.02	1.34	Magn MWD	Baker Hughes	-0.10	4,147.09	1.34	N
12,996	89.91	355.57	9,075.86	4,137.74	278.24	4,136.02	1.34	Magn MWD	Baker Hughes	0.00	4,147.09	0.00	N
13,085	90.15	357.09	9,075.82	4,226.56	272.55	4,224.87	1.73	Magn MWD	Baker Hughes	0.27	4,235.34	1.71	N
13,085	90.15	357.09	9,075.82	4,226.56	272.55	4,224.87	1.73	Magn MWD	Baker Hughes	0.00	4,235.34	0.00	N
13,174	90.22	358.04	9,075.53	4,315.48	268.76	4,313.80	1.07	Magn MWD	Baker Hughes	0.00	4,323.84	0.00	N
13,174	90.22	358.04	9,075.53	4,315.48	268.76	4,313.80	1.07	Magn MWD	Baker Hughes	0.08	4,323.84	1.07	N
13,262	90.40	0.59	9,075.05	4,403.46	267.71	4,401.79	2.90	Magn MWD	Baker Hughes	0.00	4,411.59	0.00	N
13,262	90.40	0.59	9,075.05	4,403.46	267.71	4,401.79	2.90	Magn MWD	Baker Hughes	0.20	4,411.59	406.19	N
13,351	90.22	1.42	9,074.57	4,492.44	269.27	4,490.77	0.95	Magn MWD	Baker Hughes	-0.20	4,500.51	0.93	N
13,351	90.22	1.42	9,074.57	4,492.44	269.27	4,490.77	0.95	Magn MWD	Baker Hughes	0.00	4,500.51	0.00	N
13,440	90.12	0.33	9,074.31	4,581.43	270.63	4,579.75	1.23	Magn MWD	Baker Hughes	-0.11	4,589.42	-1.22	N
13,440	90.12	0.33	9,074.31	4,581.43	270.63	4,579.75	1.23	Magn MWD	Baker Hughes	0.00	4,589.42	0.00	N
13,529	90.37	1.19	9,073.93	4,670.42	271.81	4,668.73	1.01	Magn MWD	Baker Hughes	0.00	4,678.33	0.00	N
13,529	90.37	1.19	9,073.93	4,670.42	271.81	4,668.73	1.01	Magn MWD	Baker Hughes	0.28	4,678.33	0.97	N
13,617	90.09	0.10	9,073.58	4,758.42	272.80	4,756.71	1.28	Magn MWD	Baker Hughes	-0.32	4,766.23	-1.24	N
13,706	90.22	2.52	9,073.33	4,847.39	274.84	4,845.67	2.72	Magn MWD	Baker Hughes	0.15	4,855.17	2.72	N
13,791	90.22	3.21	9,073.01	4,932.28	279.09	4,930.53	0.81	Magn MWD	Baker Hughes	0.00	4,940.17	0.81	N
13,808	88.92	359.88	9,073.38	4,947.26	279.46	4,945.52	32.30	Magn MWD	Baker Hughes	-22.00	4,955.15	2,376.33	N
13,816	90.22	3.21	9,073.63	4,957.25	279.71	4,955.51	48.46	Extrap.	Baker Hughes	33.00	4,955.14	-3,564.50	N

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Casing Summary

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Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,185.00	3,197.60	3,197.60, 3/28/2016		

Conductor, Planned?-N, 112ftKB

Set Depth (MD) (ftKB)	Set Tension (kips)	String Nominal OD (in)	String Min Drift (in)	Centralizers	Scratchers
112		20	18.187		

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)
3	Casing Joint	20	19.125	169.00	K-55		38	112	74.00	3,380.0	2,500.0

Surface, Planned?-N, 830ftKB

Set Depth (MD) (ftKB)	Set Tension (kips)	String Nominal OD (in)	String Min Drift (in)	Centralizers	Scratchers
830		13 3/8		9	

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	FMC UH-2 Wellhead	19	12.615	54.50	J-55	ST&C	34	37	2.88		1,130.0
1	Casing Pup Joint	13 3/8	12.615	54.50	J-55	ST&C	37	41	4.05		1,130.0
18	Casing Joint	13 3/8	12.615	54.50	J-55	ST&C	41	785	743.61		1,130.0
1	Float Collar	13 3/8	12.615	54.50	J-55	ST&C	785	786	1.50		1,130.0
1	Casing Joint	13 3/8	12.615	54.50	J-55	ST&C	786	828	42.02		1,130.0
1	Shoe	13 3/8	12.615	54.50	J-55	ST&C	828	830	1.80		1,130.0

Intermediate Casing 1, Planned?-N, 4,557ftKB

Set Depth (MD) (ftKB)	Set Tension (kips)	String Nominal OD (in)	String Min Drift (in)	Centralizers	Scratchers
4,557		9 5/8		29	

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 Joint	9 5/8	8.835			LT&C	34	35	1.20		
3	Casing Pup Joint	9 5/8	8.835	40.00	HCK-55	LT&C	35	55	19.65		
106	Casing Joint	9 5/8	8.835	40.00	HCK-55	LT&C	55	4,469	4,414.09		4,230.0
1	Float Collar	9 5/8	8.835			LT&C	4,469	4,471	1.49		
2	Casing Joint	9 5/8	8.835	40.00	HCK-55	LT&C	4,471	4,555	84.64		4,230.0
1	Float Shoe	9 5/8	8.835			LT&C	4,555	4,557	1.64		

Production Casing, Planned?-N, 13,800ftKB

Set Depth (MD) (ftKB)	Set Tension (kips)	String Nominal OD (in)	String Min Drift (in)	Centralizers	Scratchers
13,800		5 1/2	4.656	47	

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	4.781	20.00	HCP-110	TXP-BTC-S	32	33	1.14	12,360.0	11,100.0
1	Casing Pup Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	33	38	4.21	12,360.0	11,100.0
181	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	38	7,540	7,502.02	12,360.0	11,100.0
1	Spacer Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	7,540	7,549	9.81	12,360.0	11,100.0
24	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	7,549	8,537	987.32	12,360.0	11,100.0
1	Marker Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	8,537	8,547	10.25	12,360.0	11,100.0
123	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	8,547	13,628	5,081.45	12,360.0	11,100.0
1	Casing Pup Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,628	13,638	9.80	12,360.0	11,100.0
1	RSI Toe Sleeve	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,638	13,645	6.60	12,360.0	11,100.0
1	Casing Pup Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,645	13,654	9.81	12,360.0	11,100.0
1	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,654	13,695	40.83	12,360.0	11,100.0
1	Casing Pup Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,695	13,706	10.23	12,360.0	11,100.0
1	Landing Collar	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,706	13,707	1.42	12,360.0	11,100.0
1	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,707	13,750	42.87	12,360.0	11,100.0
1	Float Collar	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,750	13,752	2.42	12,360.0	11,100.0
1	XRV VibratorTool	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,752	13,754	2.22	12,360.0	11,100.0
1	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,754	13,797	42.88	12,360.0	11,100.0
1	Float Shoe	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,797	13,800	2.58	12,360.0	11,100.0

Report Printed: 9/30/2016

Chevron

Cement Summary

Surface Casing Cement

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

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

Original Hole

Wellbore Name	Directional Type	Min Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole	Horizontal	8,567.0	359.66

Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)
17 1/2	32.6	840.0
12 1/4	840.0	4,567.0
8 3/4	4,567.0	13,816.0

<typ>, <make> on <dttmstart>

Sub Type	Install Date

Des	Make	Model	WP (psi)	Service	SN

Conductor, Planned?-N, 112ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Conductor	Original Hole	4/1/2016	112	-38.0	

Centralizers	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)
3	Casing Joint	20	19.125	169.00	K-55			74.00	38	112

Surface, Planned?-N, 830ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Surface	Original Hole	4/19/2016	830	-34.1	

Centralizers	Scratchers
9	

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	FMC UH-2 Wellhead	19	12.615	54.50	J-55		ST&C	2.86	34	37
1	Casing Pup Joint	13 3/8	12.615	54.50	J-55		ST&C	4.05	37	41
18	Casing Joint	13 3/8	12.615	54.50	J-55		ST&C	743.61	41	785
1	Float Collar	13 3/8	12.615	54.50	J-55		ST&C	1.50	785	786
1	Casing Joint	13 3/8	12.615	54.50	J-55		ST&C	42.02	786	828
1	Shoe	13 3/8	12.615	54.50	J-55		ST&C	1.80	828	830

Intermediate Casing 1, Planned?-N, 4,557ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Intermediate Casing 1	Original Hole	5/6/2016	4,557	-34.3	

Centralizers	Scratchers
29	

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 Joint	9 5/8	8.835				LT&C	1.20	34	36
3	Casing Pup Joint	9 5/8	8.835	40.00	HCK-55		LT&C	19.55	35	55
106	Casing Joint	9 5/8	8.835	40.00	HCK-55		LT&C	4,414.09	55	4,469
1	Float Collar	9 5/8	8.835				LT&C	1.49	4,469	4,471
2	Casing Joint	9 5/8	8.835	40.00	HCK-55		LT&C	84.84	4,471	4,555
1	Float Shoe	9 5/8	8.835				LT&C	1.84	4,555	4,557

Production Casing, Planned?-N, 13,800ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Production Casing	Original Hole	5/15/2016	13,800	-32.2	

Centralizers	Scratchers
47	

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	4.781	20.00	HCP-110		TXP-BTC-S	1.14	32	33
1	Casing Pup Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	4.21	33	38
181	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	7,502.02	38	7,540
1	Spacer Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.61	7,540	7,549
24	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	987.32	7,549	8,537
1	Marker Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	10.25	8,537	8,547
123	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	5,081.45	8,547	13,628

Report Printed: 9/30/2016

Cement Summary

Surface Casing Cement

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

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,155.00	3,197.60	3,197.60, 3/28/2016		

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 Pup Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.80	13,628	13,638
1	RSI Toe Sleeve	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	6.80	13,638	13,645
1	Casing Pup Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.81	13,645	13,654
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	40.83	13,654	13,695
1	Casing Pup Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	10.23	13,695	13,706
1	Landing Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	1.42	13,706	13,707
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	42.87	13,707	13,750
1	Float Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.42	13,750	13,752
1	XRV VibratorTool	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.22	13,752	13,754
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	42.68	13,754	13,797
1	Float Shoe	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.68	13,797	13,800

Surface Casing Cement, Casing, 4/19/2016 11:30

Cementing Start Date	Cementing End Date	Wellbore
4/19/2016	4/19/2016	Original Hole

Evaluation Method	Cement Evaluation Results
Returns to Surface	110 bbls cmt to surface

Comment

Performed cement job as follows:
Pressure tested lines to 3500 psi.
Pump 40 bbls of Spacer at 8.3 ppg.
Mix and pump 960 sxs (227 bbls) of Cement at 14.8 ppg.
Drop plug and displace cement with 121 bbls of 8.3 ppg Fresh Water.
Bumped plug with 534 psi over final circulating pressure.
Bled pressure off - floats held

Details:
Full returns throughout job.
Final circulating pressure prior to bumping plug 350 psi at 2.1 bpm.
110 bbls of cement to surface.
Cement in place @ 13:15

1, 37.0-840.0ftKB

Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	Top Plug?	Bottom Plug?
37.0	840.0	Y	110.0	Y	N

Initial Pump Rate (bbl/min)	Final Pump Rate (bbl/min)	Avg Pump Rate (bbl/min)	Final Pump Pressure (psi)	Plug Bump Pressure (psi)
5.6	2.2	6	350.0	884.0

Pipe Reciprocated?	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated?	Pipe RPM (rpm)
N			N	

Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drl Out Diameter (in)	Drl Out Date

Spacer

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Spacer				40.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
	8.33			

Cement Fluid Additives

Add	Type	Conc

Tail

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Tail		960	C	227.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
32.6	832.0	125.0	1.33	6.37

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
	14.80			

Report Printed: 9/30/2016

Cement Summary

Surface Casing Cement

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

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

Cement Fluid Additives

Add	Type	Conc

Displacement

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Displacement				120.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
	8.33			

Cement Fluid Additives

Add	Type	Conc

Report Printed: 9/30/2016

Cement Summary

Intermediate Casing Cement

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

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

Original Hole

Wellbore Name	Directional Type	Min Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole	Horizontal	8,567.0	359.86

Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)
17 1/2	32.6	840.0
12 1/4	840.0	4,567.0
8 3/4	4,567.0	13,816.0

<typ>, <make> on <dttmstart>

Sub Type			Install Data		
Des	Make	Model	WP (psi)	Service	SN

Conductor, Planned?-N, 112ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Conductor	Original Hole	4/1/2016	112	-38.0	

Centralizers	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)
3	Casing Joint	20	19.125	169.00	K-55			74.00	38	112

Surface, Planned?-N, 830ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Surface	Original Hole	4/19/2016	830	-34.1	

Centralizers	Scratchers
9	

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	FMC UH-2 Wellhead	19	12.615	54.50	J-55		ST&C	2.88	34	37
1	Casing Pup Joint	13 3/8	12.615	54.50	J-55		ST&C	4.05	37	41
18	Casing Joint	13 3/8	12.615	54.50	J-55		ST&C	743.61	41	785
1	Float Collar	13 3/8	12.615	54.50	J-55		ST&C	1.50	785	786
1	Casing Joint	13 3/8	12.615	54.50	J-55		ST&C	42.02	786	828
1	Shoe	13 3/8	12.615	54.50	J-55		ST&C	1.80	828	830

Intermediate Casing 1, Planned?-N, 4,557ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Intermediate Casing 1	Original Hole	5/6/2016	4,557	-34.3	

Centralizers	Scratchers
29	

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 Joint	9 5/8	8.835				LT&C	1.20	34	35
3	Casing Pup Joint	9 5/8	8.835	40.00	HCK-55		LT&C	19.85	35	55
106	Casing Joint	9 5/8	8.835	40.00	HCK-55		LT&C	4,414.09	55	4,469
1	Float Collar	9 5/8	8.835				LT&C	1.49	4,469	4,471
2	Casing Joint	9 5/8	8.835	40.00	HCK-55		LT&C	84.64	4,471	4,555
1	Float Shoe	9 5/8	8.835				LT&C	1.64	4,555	4,557

Production Casing, Planned?-N, 13,800ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Production Casing	Original Hole	5/15/2016	13,800	32.2	

Centralizers	Scratchers
47	

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	4.781	20.00	HCP-110		TXP-BTC-S	1.14	32	33
1	Casing Pup Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	4.21	33	38
181	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	7,502.02	38	7,540
1	Spacer Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.61	7,540	7,549
24	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	987.32	7,549	8,537
1	Marker Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	10.25	8,537	8,547
123	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	5,081.45	8,547	13,628

Report Printed: 9/30/2016

Cement Summary

Intermediate Casing Cement

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

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

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 Pup Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.80	13,628	13,638
1	RSI Toe Sleeve	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	6.80	13,638	13,645
1	Casing Pup Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.81	13,645	13,654
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	40.83	13,654	13,695
1	Casing Pup Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	10.23	13,695	13,706
1	Landing Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	1.42	13,706	13,707
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	42.87	13,707	13,750
1	Float Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.42	13,750	13,752
1	XRV VibratorTool	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.22	13,752	13,754
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	42.88	13,754	13,797
1	Float Shoe	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.68	13,797	13,800

Intermediate Casing Cement, Casing, 5/6/2016 21:21

Cementing Start Date	Cementing End Date	Wellbore
5/6/2016	5/7/2016	Original Hole

Evaluation Method	Cement Evaluation Results
Returns to Surface	190 bbls cmt to surface

Comment

1, 37.0-4,567.0ftKB

Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	Top Plug?	Bottom Plug?
37.0	4,567.0	Y	190.0	Y	N

Initial Pump Rate (bbl/min)	Final Pump Rate (bbl/min)	Avg Pump Rate (bbl/min)	Final Pump Pressure (psi)	Plug Bump Pressure (psi)
4.7	3.3	6.8		

Pipe Reciprocated?	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated?	Pipe RPM (rpm)
N			N	

Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date

Spacer

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Spacer	Dyed Spacer			40.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
32.6	32.6			

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
	8.30			

Cement Fluid Additives

Add	Type	Conc

Lead

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Lead	50:50 POZ/C	1,055	C	456.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
32.6	3,567.0	150.0	2.43	13.77

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
	11.90			

Cement Fluid Additives

Add	Type	Conc

Tail

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Tail	C-Neat	462	C	109.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
3,567.0	4,567.0	85.0	1.33	6.35

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
	14.80			

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Chevron

Cement Summary

Intermediate Casing Cement

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

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

Cement Fluid Additives

Add	Type	Conc

Displacement

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Displacement	Displacement			340.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Rate (gal/sack)
Free Water (%)	Density (lb/gal)	Zero Gel Time (hh:mm)	Thickening Time (hr)	1st Compressive Strength (psi)
	8.30			

Cement Fluid Additives

Add	Type	Conc

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Chevron

Cement Summary

Production Casing Cement

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

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

Original Hole

Wellbore Name	Directional Type	Min Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole	Horizontal	8,567.0	359.66

Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)
17 1/2	32.6	840.0
12 1/4	840.0	4,567.0
8 3/4	4,567.0	13,815.0

<typ>, <make> on <dttmstart>

Sub Type			Install Date		
Des	**Make**	**Model**	**WP (psi)**	**Service**	**SN**

Conductor, Planned?-N, 112ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Conductor	Original Hole	4/1/2016	112	-38.0	
Centralizers			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)
3	Casing Joint	20	19.125	169.00	K-55			74.00	38	112

Surface, Planned?-N, 830ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Surface	Original Hole	4/19/2016	830	-34.1	
Centralizers			Scratchers		
9					

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	FMC UH-2 Wellhead	19	12.615	54.50	J-55		ST&C	2.88	34	37
1	Casing Pup Joint	13 3/8	12.615	54.50	J-55		ST&C	4.05	37	41
18	Casing Joint	13 3/8	12.615	54.50	J-55		ST&C	743.61	41	785
1	Float Collar	13 3/8	12.615	54.50	J-55		ST&C	1.50	785	786
1	Casing Joint	13 3/8	12.615	54.50	J-55		ST&C	42.02	786	828
1	Shoe	13 3/8	12.615	54.50	J-55		ST&C	1.80	828	830

Intermediate Casing 1, Planned?-N, 4,557ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Intermediate Casing 1	Original Hole	5/6/2016	4,557	-34.3	
Centralizers			Scratchers		
29					

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 Joint	9 5/8	8.835				LT&C	1.20	34	35
3	Casing Pup Joint	9 5/8	8.835	40.00	HCK-55		LT&C	19.65	35	55
106	Casing Joint	9 5/8	8.835	40.00	HCK-55		LT&C	4,414.09	55	4,469
1	Float Collar	9 5/8	8.835				LT&C	1.49	4,469	4,471
2	Casing Joint	9 5/8	8.835	40.00	HCK-55		LT&C	84.64	4,471	4,555
1	Float Shoe	9 5/8	8.835				LT&C	1.64	4,555	4,557

Production Casing, Planned?-N, 13,800ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Production Casing	Original Hole	5/15/2016	13,800	-32.2	
Centralizers			Scratchers		
47					

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	4.781	20.00	HCP-110		TXP-BTC-S	1.14	32	33
1	Casing Pup Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	4.21	33	38
181	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	7,502.02	38	7,540
1	Spacer Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.61	7,540	7,549
24	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	987.32	7,549	8,537
1	Marker Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	10.25	8,537	8,547
123	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	5,081.45	8,547	13,628

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Chevron

Cement Summary

Production Casing Cement

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

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

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 Pup Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.80	13,628	13,638
1	RSI Toe Sleeve	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	6.60	13,638	13,645
1	Casing Pup Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.81	13,645	13,654
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	40.83	13,654	13,695
1	Casing Pup Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	10.23	13,695	13,706
1	Landing Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	1.42	13,706	13,707
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	42.87	13,707	13,750
1	Float Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.42	13,750	13,752
1	XRV VibratorTool	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.22	13,752	13,754
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	42.88	13,754	13,797
1	Float Shoe	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.68	13,797	13,800

Production Casing Cement, Casing, 5/15/2016 10:30

Cementing Start Date	Cementing End Date	Wellbore
5/15/2016	5/15/2016	Original Hole

Evaluation Method	Cement Evaluation Results
Lift Pressure	Actual final lift pressure exceeded design lift pressure

Comment

1, 3,850.0-13,800.0ftKB

Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	Top Plug?	Bottom Plug?
3,850.0	13,800.0	N	0.0	Y	Y

Initial Pump Rate (bbl/min)	Final Pump Rate (bbl/min)	Avg Pump Rate (bbl/min)	Final Pump Pressure (psi)	Plug Bump Pressure (psi)
6.2	3.4	6.5	1,964.0	2,500.0

Pipe Reciprocated?	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated?	Pipe RPM (rpm)
N			N	

Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date
13,707				

Spacer

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Spacer	MUDPUSH Express Spacer D047 - .2 gal/bbl B389 - .60 lb/bbl BW /V.Spacer D035 - 2601.3 lb/mgal			30.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
3,204.0	3,850.0			

Free Water (%)	Density (lb/gal)	Zero Gel Time (hh:mm)	Thickening Time (hr)	1st Compressive Strength (psi)
	10.00			

Cement Fluid Additives

Add	Type	Conc

Lead

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Lead	50:50 Poz/H + .2% D046 + 6.5% D020 + 8% D154 + .2% D065 + 2lb/sk B288 + 2 lb/sk B289 + .03 GPS D017	624	H	299.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
3,850.0	8,567.0	50.0	2.69	15.77

Free Water (%)	Density (lb/gal)	Zero Gel Time (hh:mm)	Thickening Time (hr)	1st Compressive Strength (psi)
	11.50			

Cement Fluid Additives

Add	Type	Conc

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Cement Summary

Production Casing Cement

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

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

Lead

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Lead	TXI + 3% D020 + .2% D046 + .2% D065 + .4% D238 + .4% D013 + .06% D208 + .01 GPS D177	905	H	258.0
Estimated Top (ftKB)	**Estimated Bottom Depth (ftKB)**	**Percent Excess Pumped (%)**	**Yield (ft³/sack)**	**Fluid Mix Ratio (gal/sack)**
8,567.0	12,800.0	35.0	1.60	8.62
Free Water (%)	**Density (lb/gal)**	**Zero Gel Time (hh:mm)**	**Thickening Time (hr)**	**1st Compressive Strength (psi)**
	12.50			

Cement Fluid Additives

Add	Type	Conc

Tail

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Tail	Class H + 2% D046 + .2% D065 + .4% D167 + .15% D800 + 75% D151 + .1% D208	120	H	47.0
Estimated Top (ftKB)	**Estimated Bottom Depth (ftKB)**	**Percent Excess Pumped (%)**	**Yield (ft³/sack)**	**Fluid Mix Ratio (gal/sack)**
12,800.0	13,816.0	0.0	2.18	9.55
Free Water (%)	**Density (lb/gal)**	**Zero Gel Time (hh:mm)**	**Thickening Time (hr)**	**1st Compressive Strength (psi)**
	15.00			

Cement Fluid Additives

Add	Type	Conc

Displacement

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Displacement	20 bbls Acetic Acid .284 bbls FW			304.0
Estimated Top (ftKB)	**Estimated Bottom Depth (ftKB)**	**Percent Excess Pumped (%)**	**Yield (ft³/sack)**	**Fluid Mix Ratio (gal/sack)**
				8.33
Free Water (%)	**Density (lb/gal)**	**Zero Gel Time (hh:mm)**	**Thickening Time (hr)**	**1st Compressive Strength (psi)**
	8.33			

Cement Fluid Additives

Add	Type	Conc

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