

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNMOCD
HobbsFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018HOBBS OCD
DEC 27 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 page 2**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other	8. Well Name and No. SD WE 24 FED P23 3H ✓
2. Name of Operator CHEVRON USA INC /	9. API Well No. 30-025-43297-00-X1
3a. Address 1616 W. BENDER BLVD HOBBS, NM 88240	10. Field and Pool or Exploratory Area WC025G06S263319P-BONE SPRING
3b. Phone No. (include area code) Ph: 432-687-7375	11. County or Parish, State LEA COUNTY, NM
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 24 T26S R32E SWSW 260FSL 1333FWL ✓	

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

TYPE OF SUBMISSION	TYPE OF ACTION
☐ Notice of Intent	☐ Acidize
☒ Subsequent Report	☐ Deepen
☐ Final Abandonment Notice	☐ Hydraulic Fracturing
	☐ Production (Start/Resume)
	☐ Reclamation
	☐ Water Shut-Off
	☐ Well Integrity
	☒ Other Drilling Operations
	☐ Recomplete
	☐ Temporarily Abandon
	☐ Water Disposal
	☐ Plug and Abandon
	☐ Plug Back
	☐ Convert to Injection

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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

THIS REPORT IS TO AMEND INCORRECT INFORMATION ON THE PRODUCTION CASING AND WILL SUPERCEDE EC#356676.

08/19/2016:SPUD WELL. DRILL SURFACE HOLE 153-755.

08/20/2016: RAN 13 3/8",54.5#,J-55,STC SURFACE CASING & SET @ 745'. FC @ 699'. CMT W/844 SX CL C TAIL CMT. YLD:1.33. CIRC 85 BBLS TO SURF.

09/01/2016: TEST BOPE TO 250L/5000H. PRESS TEST SURF CSG TO 1500PSI FOR 30 MINS. GOOD. DRILL 10' NEW FORMATION TO 765'. DRILL INTERMEDIATE HOLE 765-779, 814, 1143, 2566, 3305, 3485, 3988, 4600'.

09/04/2016: RAN 9 5/8",40#,HCK-55,LTC INTERMEDIATE CSG & SET @ 4590'. FC - 4503'.PRESS TEST LINES

To c on production?

14. I hereby certify that the foregoing is true and correct. Electronic Submission #360329 verified by the BLM Well Information System For CHEVRON USA INC, sent to the Hobbs Committed to AFMSS for processing by JENNIFER SANCHEZ on 12/13/2016 (17JAS0054SE)	
Name (Printed/Typed) DENISE PINKERTON	Title PERMITTING SPECIALIST
Signature (Electronic Submission)	Date 12/08/2016
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By _____	Title _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office _____
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.	

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED *****KZ*

Additional data for EC transaction #360329 that would not fit on the form

32. Additional remarks, continued

TO 500/4500PSI. CMT W/1062 SX CL C LEAD, 447 SX CL C TAIL. TOTAL SX-1509 SX. DISPL CMT W/334 BBLS
9.0PPG OBM. BUMP PLUG W/500PSI OVER FINAL CIRC PRESS @ 1630PSI. FULL RETURNS THROUGHOUT JOB. FINAL
CIRC PRESS PRIOR TO BUMPING PLUG 1175PSI @ 3BPM. 197 BBLS CMT TO SURF. CMT IN PLACE @ 1:24 HRS.
PRESS TEST TO 5000PSI FOR 15 MINS. GOOD.

09/30/2016: TEST BOPE TO 250L/5000H.

10/01/2016: DRILL 10' NEW FORMATION TO 4610'. DRILL PRODUCTION HOLE FR

4610-5827,6359,7150,7509,7579,7936,8217,8464,8521,8745,8890,9064,9182,9287,9960,10314,10669,11379,11925,12107,12224,12286,12376,
125107,12224,12286,12376,12553,12907,13129,13262,13337,13533,
13970,14591,15121,15724,15851,16090,16428,16650,17068,17599,18131,18495,18771,
19261. **TD REACHED ON 10/15/2016,

10/17/2016: RAN 5 1/2",20#,P-110,TXP-BTC PRODUCTION CSG & SET @ 19,245'.

CMT W/623 SX CL H LEAD, 2121 SX CL H LEAD, & 121 SX CL H TAIL. TOTAL SX: 2865 SX. YLD-2.18.
RELEASED RIG.

TOL?



Casing Summary

Well Name SALADO DRAW WE 24 FED P23 003H	Lease	Field Name JENNINGS	Business Unit Mid-Continent
Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft) Water Depth (ft)

Surface, Planned?-N, 745ftKB

Set Depth (MD) (ftKB)		Set Tension (kips)		String Nominal OD (in)		String Min Drift (in)		Centralizers		Scratchers	
745				13 3/8				7			
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	12.615	54.50	J-55	ST&C	35	38	2.90		
1	Casing Pup Joint	13 3/8	12.615	54.50	J-55	ST&C	38	42	4.13		
16	Casing Joint	13 3/8	12.615	54.50	J-55	ST&C	42	699	656.23		1,130.0
1	Float Collar	13 3/8	12.615	54.50	J-55	ST&C	699	700	1.38		
1	Casing Joint	13 3/8	12.615	54.50	J-55	ST&C	700	743	42.91		1,130.0
1	Float Shoe	13 3/8	12.615	54.50	J-55	ST&C	743	745	2.06		

Intermediate Casing 1, Planned?-N, 4,590ftKB

Set Depth (MD) (ftKB)		Set Tension (kips)		String Nominal OD (in)		String Min Drift (in)		Centralizers		Scratchers	
4,590				9 5/8		8.688		31			
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		35	37	1.61	3,950.0	4,230.0
1	Casing Pup Joint	9 5/8	8.835	40.00	HCK-55		37	41	4.18	3,950.0	4,230.0
10	Casing Joint	9 5/8	8.835	40.00	HCK-55		41	4,503	4,462.29	3,950.0	4,230.0
8											
1	Float Collar	9 5/8	8.835				4,503	4,505	1.49		
2	Casing Joint	9 5/8	8.835	40.00	HCK-55		4,505	4,588	83.45	3,950.0	4,230.0
1	Float Shoe	9 5/8	8.835	40.00			4,588	4,590	1.62	3,950.0	4,230.0

Production Casing, Planned?-N, 19,245ftKB

Set Depth (MD) (ftKB)		Set Tension (kips)		String Nominal OD (in)		String Min Drift (in)		Centralizers		Scratchers	
19,245				5 1/2				158			
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	5 1/2	4.800	20.00	P-110	TXP-BTC	35	36	1.26		
1	Hanger Pup	5 1/2	4.800	20.00	P-110	TXP-BTC	36	40	4.24		
19	Casing Joint	5 1/2	4.800	20.00	P-110	TXP-BTC	40	8,486	8,445.43		
2											
1	Marker Joint	5 1/2	4.800	20.00	P-110	TXP-BTC	8,486	8,496	9.94		
24	Casing Joint	5 1/2	4.800	20.00	P-110	TXP-BTC	8,496	19,079	10,583.68		
0											
1	Pup Jt	5 1/2	4.800	20.00	P-110	TXP-BTC	19,079	19,089	9.87		
1	RSI	5 1/2	4.800	20.00	P-110	TXP-BTC	19,089	19,096	6.66		
1	Pup Jt	5 1/2	4.800	20.00	P-110	TXP-BTC	19,096	19,106	9.85		
1	Casing Joint	5 1/2	4.800	20.00	P-110	TXP-BTC	19,106	19,150	44.38		
1	Pup Jt	5 1/2	4.800	20.00	P-110	TXP-BTC	19,150	19,160	9.88		
1	Land Collar	5 1/2	4.800	20.00	P-110	TXP-BTC	19,160	19,161	1.41		
1	Casing Joint	5 1/2	4.800	20.00	P-110	TXP-BTC	19,161	19,201	39.94		
1	Float Collar	5 1/2	4.800	20.00	P-110	TXP-BTC	19,201	19,203	1.28		
1	Casing Joint	5 1/2	4.800	20.00	P-110	TXP-BTC	19,203	19,242	39.77		
1	Float Shoe	5 1/2	4.800	20.00	P-110	TXP-BTC	19,242	19,245	2.70		



Cement Summary

Surface Casing Cement

Well Name SALADO DRAW WE 24 FED P23-003H	Lease	Field Name JENNINGS	Business Unit Mid-Continent
Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft) Water Depth (ft)

Original Hole

Wellbore Name Original Hole	Directional Type Horizontal	Min Kick Off Depth (ftKB)	Vertical Section Direction (°) 359.71
Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	
17 1/2	32.6	755.0	
12 1/4	755.0	4,600.0	
8 3/4	4,600.0	19,261.0	

Multi-bowl, FMC on 8/20/2016 04:00

Sub-Type Multi-bowl			Install Date 8/20/2016		
Des	Make	Model	WP (psi)	Service	SN

Surface, Planned?-N, 745ftKB

Casing Description Surface	Wellbore Original Hole	Run Date 8/20/2016	Set Depth (MD) (ftKB) 745	Suck Up (ftKB) -35.4	Set Tension (kips)
Centralizers 7	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	12 615	54.50	J-55	13 3/8	ST&C	2.90	35	38
1	Casing Pup Joint	13 3/8	12 615	54.50	J-55	13 3/8	ST&C	4.13	38	42
16	Casing Joint	13 3/8	12 615	54.50	J-55	13 3/8	ST&C	656.23	42	699
1	Float Collar	13 3/8	12 615	54.50	J-55	13 3/8	ST&C	1.38	699	700
1	Casing Joint	13 3/8	12 615	54.50	J-55	13 3/8	ST&C	42.91	700	743
1	Float Shoe	13 3/8	12 615	54.50	J-55	13 3/8	ST&C	2.06	743	745

Intermediate Casing 1, Planned?-N, 4,590ftKB

Casing Description Intermediate Casing 1	Wellbore Original Hole	Run Date 9/4/2016	Set Depth (MD) (ftKB) 4,590	Suck Up (ftKB) -35.4	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			1.61	35	37
1	Casing Pup Joint	9 5/8	8.835	40.00	HCK-55			4.18	37	41
108	Casing Joint	9 5/8	8.835	40.00	HCK-55			4,462.29	41	4,503
1	Float Collar	9 5/8	8.835					1.49	4,503	4,505
2	Casing Joint	9 5/8	8.835	40.00	HCK-55			83.45	4,505	4,588
1	Float Shoe	9 5/8	8.835	40.00				1.62	4,588	4,590

Production Casing, Planned?-N, 19,245ftKB

Casing Description Production Casing	Wellbore Original Hole	Run Date 10/17/2016	Set Depth (MD) (ftKB) 19,245	Suck Up (ftKB) -34.7	Set Tension (kips)
Centralizers 158	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	5 1/2	4.800	20.00	P-110		TXP-BTC	1.26	35	36
1	Hanger Pup	5 1/2	4.800	20.00	P-110		TXP-BTC	4.24	36	40
192	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	8,445.43	40	8,486
1	Marker Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	9.94	8,486	8,496
240	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	10,583.68	8,496	19,079
1	Pup Jt	5 1/2	4.800	20.00	P-110		TXP-BTC	9.87	19,079	19,089
1	RSI	5 1/2	4.800	20.00	P-110		TXP-BTC	6.66	19,089	19,096
1	Pup Jt	5 1/2	4.800	20.00	P-110		TXP-BTC	9.85	19,096	19,106
1	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	44.38	19,106	19,150
1	Pup Jt	5 1/2	4.800	20.00	P-110		TXP-BTC	9.88	19,150	19,160



Cement Summary

Surface Casing Cement

Well Name SALADO DRAW WE 24 FED P23 003H	Lease	Field Name JENNINGS	Business Unit Mid-Continent
Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft) Water Depth (ft)

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	Land Collar	5 1/2	4.800	20.00	P-110		TXP-BTC	1.41	19,160	19,161
1	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	39.94	19,161	19,201
1	Float Collar	5 1/2	4.800	20.00	P-110		TXP-BTC	1.28	19,201	19,203
1	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	39.77	19,203	19,242
1	Float Shoe	5 1/2	4.800	20.00	P-110		TXP-BTC	2.70	19,242	19,245

Surface Casing Cement, Casing, 8/20/2016 09:30

Cementing Start Date 8/20/2016	Cementing End Date 8/20/2016	Wellbore Original Hole
Evaluation Method Returns to Surface	Cement Evaluation Results 85 bbls of cement to surface.	
Comment		

1, 32.6-745.0ftKB

Top Depth (ftKB) 32.6	Bottom Depth (ftKB) 745.0	Full Return? N	Vol Cement Ret (bbl) 85.0	Top Plug? Y	Bottom Plug? N
Initial Pump Rate (bbl/min) 4.8	Final Pump Rate (bbl/min) 2.3	Avg Pump Rate (bbl/min) 4.8		Final Pump Pressure (psi) 260.0	Plug Bump Pressure (psi) 860.0
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

Preflush

Fluid Type Preflush	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl) 40.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 8.40	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

Tail

Fluid Type Tail	Fluid Description	Quantity (sacks) 844	Class C	Volume Pumped (bbl) 200.0
Estimated Top (ftKB) 35.4	Estimated Bottom Depth (ftKB) 750.0	Percent Excess Pumped (%) 125.0	Yield (ft ³ /sack) 1.33	Fluid Mix Ratio (gal/sack) 6.36
Free Water (%)	Density (lb/gal) 14.80	Zero Gel Time (min)	Thickening Time (hr) 4.13	1st Compressive Strength (psi) 93.0

Cement Fluid Additives

Add	Type	Conc

Displacement

Fluid Type Displacement	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl) 108.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /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



Cement Summary

Intermediate Casing Cement

Well Name SALADO DRAW WE 24 FED P23 003H		Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation		Mud Line Elevation (ft)	Water Depth (ft)

Original Hole

Wellbore Name Original Hole	Directional Type Horizontal	Min Kick Off Depth (ftKB)	Vertical Section Direction (°) 359.71
Hole Size (in)	Act Top (ftKB)	Act Blm (ftKB)	
17 1/2	32.8	755.0	
12 1/4	755.0	4,600.0	
8 3/4	4,600.0	19,261.0	

Multi-bowl, FMC on 8/20/2016 04:00

Sub-Type Multi-bowl			Install Date 8/20/2016		
Des	Make	Model	WP (psi)	Service	SN

Surface, Planned?-N, 745ftKB

Casing Description: Surface		Wellbore: Original Hole		Run Date: 8/20/2016		Set Depth (MD) (ftKB): 745		Stick Up (ftKB): -35.4		Set Tension (kips):	
Centralizers: 7						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	12.615	54.50	J-55	13 3/8	ST&C	2.90	35	38	
1	Casing Pup Joint	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	4.13	38	42	
16	Casing Joint	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	656.23	42	699	
1	Float Collar	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	1.38	699	700	
1	Casing Joint	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	42.91	700	743	
1	Float Shoe	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	2.06	743	745	

Intermediate Casing 1, Planned?-N, 4,590ftKB

Casing Description Intermediate Casing 1		Wellbore Original Hole		Run Date 9/4/2016		Set Depth (MD) (ftKB) 4,590		Stick Up (ftKB) -35.4		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)	Blm Depth (MD) (ftKB)	
1	Hanger	9 5/8	8.835	40.00	HCK-55			1.61	35	37	
1	Casing Pup Joint	9 5/8	8.835	40.00	HCK-55			4.18	37	41	
108	Casing Joint	9 5/8	8.835	40.00	HCK-55			4,462.29	41	4,503	
1	Float Collar	9 5/8	8.835					1.49	4,503	4,505	
2	Casing Joint	9 5/8	8.835	40.00	HCK-55			83.45	4,505	4,588	
1	Float Shoe	9 5/8	8.835	40.00				1.62	4,588	4,590	

Production Casing, Planned?-N, 19,245ftKB

Casing Description Production Casing		Wellbore Original Hole		Run Date 10/17/2016		Set Depth (MD) (ftKB) 19,245		Stick Up (ftKB) -34.7		Set Tension (kips)	
Centralizers 158						Scratchers					
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Blm Depth (MD) (ftKB)	
1	Hanger	5 1/2	4.800	20.00	P-110		TXP-BTC	1.26	35	36	
1	Hanger Pup	5 1/2	4.800	20.00	P-110		TXP-BTC	4.24	36	40	
192	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	8,445.43	40	8,486	
1	Marker Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	9.94	8,486	8,496	
240	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	10,583.68	8,496	19,079	
1	Pup Jt	5 1/2	4.800	20.00	P-110		TXP-BTC	9.87	19,079	19,089	
1	RSI	5 1/2	4.800	20.00	P-110		TXP-BTC	6.66	19,089	19,096	
1	Pup Jt	5 1/2	4.800	20.00	P-110		TXP-BTC	9.85	19,096	19,106	
1	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	44.38	19,106	19,150	
1	Pup Jt	5 1/2	4.800	20.00	P-110		TXP-BTC	9.88	19,150	19,160	



Cement Summary

Intermediate Casing Cement

Well Name SALADO DRAW WE 24 FED P23 003H	Lease	Field Name JENNINGS	Business Unit Mid-Continent
Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft) Water Depth (ft)

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Botm Depth (MD) (ftKB)
1	Land Collar	5 1/2	4.800	20.00	P-110		TXP-BTC	1.41	19,160	19,161
1	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	39.94	19,161	19,201
1	Float Collar	5 1/2	4.800	20.00	P-110		TXP-BTC	1.28	19,201	19,203
1	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	39.77	19,203	19,242
1	Float Shoe	5 1/2	4.800	20.00	P-110		TXP-BTC	2.70	19,242	19,245

Intermediate Casing Cement, Casing, 9/4/2016 15:12

Cementing Start Date 9/4/2016	Cementing End Date 9/4/2016	Wellbore Original Hole
Evaluation Method Returns to Surface	Cement Evaluation Results 197 bbls of cement to surface	
Comment		

1, 32.6-4,590.0ftKB

Top Depth (ftKB) 32.6	Bottom Depth (ftKB) 4,590.0	Full Return? Y	Vol Cement Ret (bbl) 197.0	Top Plug? Y	Bottom Plug? N
Initial Pump Rate (bbl/min) 6.6	Final Pump Rate (bbl/min) 3	Avg Pump Rate (bbl/min) 6.6	Final Pump Pressure (psi) 1,175.0	Plug Bump Pressure (psi) 1,631.0	
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 40 bbl dyed spacer	Quantity (sacks)	Class	Volume Pumped (bbl) 40.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /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

Lead

Fluid Type Lead	Fluid Description 3% BWOB D020 + 5% BWOB D044 + 0.2% BWOB D046 + 10% BWOB D154	Quantity (sacks) 1,062	Class C	Volume Pumped (bbl) 456.0
Estimated Top (ftKB) 35.4	Estimated Bottom Depth (ftKB) 3,600.0	Percent Excess Pumped (%) 150.0	Yield (ft ³ /sack) 2.41	Fluid Mix Ratio (gal/sack) 13.86
Free Water (%)	Density (lb/gal) 11.90	Zero Gel Time (min)	Thickening Time (hr) 7.00	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

Tail

Fluid Type Tail	Fluid Description 0.01 gal/sk D177 Spike	Quantity (sacks) 447	Class C	Volume Pumped (bbl) 106.0
Estimated Top (ftKB) 3,600.0	Estimated Bottom Depth (ftKB) 4,590.0	Percent Excess Pumped (%) 85.0	Yield (ft ³ /sack) 1.33	Fluid Mix Ratio (gal/sack) 6.37
Free Water (%)	Density (lb/gal) 14.80	Zero Gel Time (min)	Thickening Time (hr) 3.50	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

Displacement

Fluid Type Displacement	Fluid Description Oil Based Mud	Quantity (sacks)	Class	Volume Pumped (bbl) 334.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 9.00	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)



Cement Summary

Production Casing Cement

Well Name SALADO DRAW WE 24 FED P23 003H	Lease	Field Name JENNINGS	Business Unit Mid-Continent
Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft) Water Depth (ft)

Original Hole

Wellbore Name Original Hole	Directional Type Horizontal	Min Kick Off Depth (ftKB)	Vertical Section Direction (*) 359.71
Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	
17 1/2	32.6	755.0	
12 1/4	755.0	4,600.0	
8 3/4	4,600.0	19,261.0	

Multi-bowl, FMC on 8/20/2016 04:00

Sub-Type Multi-bowl	Install Date 8/20/2016				
Des	Make	Model	WP (psi)	Service	SN

Surface, Planned?-N, 745ftKB

Casing Description Surface		Wellbore Original Hole		Run Date 8/20/2016		Set Depth (MD) (ftKB) 745		Sick Up (ftKB) -35.4		Set Tension (kips)	
Centralizers 7						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	12.615	54.50	J-55	13 3/8	ST&C	2.90	35	38	
1	Casing Pup Joint	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	4.13	38	42	
16	Casing Joint	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	656.23	42	699	
1	Float Collar	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	1.38	699	700	
1	Casing Joint	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	42.91	700	743	
1	Float Shoe	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	2.06	743	745	

Intermediate Casing 1, Planned?-N, 4,590ftKB

Casing Description Intermediate Casing 1		Wellbore Original Hole	Run Date 9/4/2016	Set Depth (MD) (ftKB) 4,590	Sick Up (ftKB) -35.4	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			1.61	35	37
1	Casing Pup Joint	9 5/8	8.835	40.00	HCK-55			4.18	37	41
108	Casing Joint	9 5/8	8.835	40.00	HCK-55			4,462.29	41	4,503
1	Float Collar	9 5/8	8.835					1.49	4,503	4,505
2	Casing Joint	9 5/8	8.835	40.00	HCK-55			83.45	4,505	4,588
1	Float Shoe	9 5/8	8.835	40.00				1.62	4,588	4,590

Production Casing, Planned?-N, 19,245ftKB

Casing Description Production Casing		Wellbore Original Hole	Run Date 10/17/2016			Set Depth (MD) (ftKB) 19,245		Stick Up (ftKB) -34.7		Set Tension (kips)	
Centralizers 158						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	5 1/2	4.800	20.00	P-110		TXP-BTC	1.26	35	36	
1	Hanger Pup	5 1/2	4.800	20.00	P-110		TXP-BTC	4.24	36	40	
192	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	8,445.43	40	8,486	
1	Marker Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	9.94	8,486	8,496	
240	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	10,583.68	8,496	19,079	
1	Pup Jt	5 1/2	4.800	20.00	P-110		TXP-BTC	9.87	19,079	19,089	
1	RSI	5 1/2	4.800	20.00	P-110		TXP-BTC	6.66	19,089	19,096	
1	Pup Jt	5 1/2	4.800	20.00	P-110		TXP-BTC	9.85	19,096	19,106	
1	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	44.38	19,106	19,150	
1	Pup Jt	5 1/2	4.800	20.00	P-110		TXP-BTC	9.88	19,150	19,160	



Cement Summary

Production Casing Cement

Well Name SALADO DRAW WE 24 FED P23 003H	Lease	Field Name JENNINGS	Business Unit Mid-Continent
Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft) Water Depth (ft)

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Blm Depth (MD) (ftKB)
1	Land Collar	5 1/2	4.800	20.00	P-110		TXP-BTC	1.41	19,160	19,161
1	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	39.94	19,161	19,201
1	Float Collar	5 1/2	4.800	20.00	P-110		TXP-BTC	1.28	19,201	19,203
1	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	39.77	19,203	19,242
1	Float Shoe	5 1/2	4.800	20.00	P-110		TXP-BTC	2.70	19,242	19,245

Production Casing Cement, Casing, 10/17/2016 18:35

Cementing Start Date 10/17/2016	Cementing End Date 10/17/2016	Wellbore Original Hole
Evaluation Method Returns to Surface	Cement Evaluation Results 40 bbls of spacer to surface	
Comment		

1, 3,550.0-19,245.0ftKB

Top Depth (ftKB) 3,550.0	Bottom Depth (ftKB) 19,245.0	Full Return? N	Vol Cement Ret (bbl) 0.0	Top Plug? Y	Bottom Plug? Y
Initial Pump Rate (bbl/min) 6.7	Final Pump Rate (bbl/min) 3.5	Avg Pump Rate (bbl/min) 6.7	Final Pump Pressure (psi) 1,450.0	Plug Bump Pressure (psi) 1,450.0	
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) 50.0	Class H	Volume Pumped (bbl) 50.0
Estimated Top (ftKB) 3,473.0	Estimated Bottom Depth (ftKB) 3,495.0	Percent Excess Pumped (%) 50.0	Yield (ft ³ /sack) 2.72	Fluid Mix Ratio (gal/sack) 15.89
Free Water (%) 0.00	Density (lb/gal) 11.50	Zero Gel Time (min) 7.83	Thickening Time (hr) 5.18	1st Compressive Strength (psi) 50.0

Cement Fluid Additives

Add	Type	Conc

Lead

Fluid Type Lead	Fluid Description	Quantity (sacks) 623	Class H	Volume Pumped (bbl) 303.0
Estimated Top (ftKB) 3,495.0	Estimated Bottom Depth (ftKB) 8,295.0	Percent Excess Pumped (%) 50.0	Yield (ft ³ /sack) 2.72	Fluid Mix Ratio (gal/sack) 15.89
Free Water (%) 0.00	Density (lb/gal) 11.50	Zero Gel Time (min) 7.83	Thickening Time (hr) 5.18	1st Compressive Strength (psi) 50.0

Cement Fluid Additives

Add	Type	Conc

Lead

Fluid Type Lead	Fluid Description	Quantity (sacks) 2,121	Class H	Volume Pumped (bbl) 604.0
Estimated Top (ftKB) 8,295.0	Estimated Bottom Depth (ftKB) 18,245.0	Percent Excess Pumped (%) 35.0	Yield (ft ³ /sack) 1.62	Fluid Mix Ratio (gal/sack) 8.48
Free Water (%) 0.00	Density (lb/gal) 12.50	Zero Gel Time (min) 5.18	Thickening Time (hr) 5.18	1st Compressive Strength (psi) 50.0

Cement Fluid Additives

Add	Type	Conc

Tail

Fluid Type Tail	Fluid Description	Quantity (sacks) 121	Class H	Volume Pumped (bbl) 47.0
Estimated Top (ftKB) 18,245.0	Estimated Bottom Depth (ftKB) 19,245.0	Percent Excess Pumped (%) 0.0	Yield (ft ³ /sack) 2.18	Fluid Mix Ratio (gal/sack) 9.56
Free Water (%) 0.00	Density (lb/gal) 15.00	Zero Gel Time (min) 3.45	Thickening Time (hr) 3.45	1st Compressive Strength (psi) 50.0

Cement Fluid Additives

Add	Type	Conc



Cement Summary

Production Casing Cement

Well Name SALADO DRAW WE 24 FED P23 003H	Lease	Field Name JENNINGS	Business Unit Mid-Continent
Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft) Water Depth (ft)

Displacement

Fluid Type Displacement	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl) 425.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /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
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