Form 3160-5
(June 2015)

HOBBS OCD
DEC 21 2016
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD
Hobbs

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

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

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 24 FED P23 4H

2. Name of Operator
CHEVRON USA INC

Contact: DENISE PINKERTON
E-Mail: leakejd@chevron.com

9. API Well No.
30-025-43298-00-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 Area
WC025G06S263319P-BONE SPRING

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 24 T26S R32E SESW 260FSL 1358FWL

11. County or Parish, State
LEA COUNTY, NM

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	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ 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 must 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 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 IS AN AMENDED REPORT FOR SPUD AND DRILLING OPERATIONS AND WILL REPLACE EC#356680 SUBMITTED ON 11/01/2016 & APPROVED ON 11/30/2016

***PLEASE SEE ATTACHED DETAILED REPORT FOR SPUD, SURFACE, INTERMEDIATE, & PRODUCTION CASING, CEMENTING INFORMATION, AND RELEASE OF RIG. ALSO ATTACHED, IS THE DIRECTIONAL SURVEY, AND CASING & CEMENTING INFORMATION.

THIS WELL IS CURRENTLY BEING COMPLETED AND PRODUCTION START UP WILL BE SUBMITTED UPON COMPLETION.

08/17/2016: SPUD WELL.
08/19/2016: SET SURFACE CASING @ 750'.
08/19/2016 THROUGH 09/07/2016: DRILLED 770 - 4615'.

Circulate on surface Casing? TOC on production?

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

Electronic Submission #360888 verified by the BLM Well Information System
For CHEVRON USA INC, sent to the Hobbs
Committed to AFMSS for processing by JENNIFER SANCHEZ on 12/20/2016 (17JAS0130SE)

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

Signature (Electronic Submission) — Date 12/14/2016

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

ACCEPTED FOR RECORD
DEC 21 2016
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD 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 **

Additional data for EC transaction #360888 that would not fit on the form

32. Additional remarks, continued

09/07/2016: SET INTERMEDIATE CASING @ 4605'.
09/08/2016 THROUGH 09/27/2016: DRILL 4625 - 18709'.
09/28/2016: SET PRODUCTION CASING @ 18,694'
09/30/2016: RELEASE RIG.

SD WE 24 FED P23 No. 4H

Nabors X-30 began drilling the 17 ½" hole on 08/17/2016.

Surface Casing

TD 17 ½" hole at 760' on 08/18/2016.

Ran 13 3/8",54.5#,J-55 STC surface casing and set @ 750'.

Centralizer placed 10' above float shoe, 10' above the FC, & every 3rd jt to surface.

circulate?

Cemented with:

Tail – 844 sacks Class "C", Yield:1.33, Fluid Mix Ratio:6.36, Density:14.80

Install wellhead. NU BOP. Test BOPE to 250L/5000H. 09/05/2016.

Intermediate Casing

TD 12 ¼" hole at 4615' on 09/07/2016.

Ran 9 5/8",40#,HCK-55, LTC casing & set @ 4605'.

Centralized with 30 bow spring centralizers, 4 on the shoe track, 1 bow spring centralizer every 4 jts to surface.

Cemented with:

Lead – 1001 sacks Class "C", w/3%BWOB D020+5%BWOB D044+0.2%BWOB D046+10% BWOB D154. Yield: 254, Fluid Mix Ratio-13.86, Density:11.90.

Tail – 426 sacks Class "C", w/0.01 gals/sk D177 Spike, Yield-1.33, Fluid Mix Ratio-6.37, Density-14.80

Displace w/334bbls OBM.

Bump plug w/500psi over final circ pressure @ 1,750psi.

Circulated 226 bbls of cement to surface.

Full returns throughout job.

Install wellhead. NU BOP. Test 250/3300psi. Press test csg to 2765psi for 30 mins. Good.

Production Casing

TD 8 ¾" hole at 18,709 on 09/27/2016.

Ran 5 ½",20#,HCP-110, TXP BTC production csg & set @ 18,694'.

Circulate 1.5 B/U through casing valves to downstream manifold @ 8 BPM w/1,600psi.

Cemented with:

Lead 1 – 621 sacks Class "H" w/0.5/10bbl D177&CemNet added – 301 bbls, 621, sx, 11.5ppg, Yield-2.72, Fluid Mix Ratio-15.89, Density-11.50

Lead 2 – 1933 sx Class "H" w/0.5/10 bbl D177, 12.5ppg, Yield-1.62, Fluid Mix Ratio-8.47, Density-12.50.

Tail – 111 sacks Class "H" , Yield-2.18, Fluid Mix Ratio – 9.56, Density – 15.00

Displacement – 411 bbls fresh water.

Finish circulating 1.5 B/U @ 8BPM w/1600psi.

Release Rig @ 2:30 hrs on 09/30/2016.

Casing Summary

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 24 FED P23 004H		JENNINGS	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)

Surface, Planned?-N, 750ftKB

Set Depth (MD) (ftKB)	Set Tension (kips)	String Nominal OD (in)	String Min Drift (in)	Centralizers	Scratchers
750		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		13 3/8	12.615	54.50	J-55	ST&C	36	39	2.90		1,130.0
1	Casing Pup Joint	13 3/8	12.615	54.50	J-55	ST&C	39	43	4.13		1,130.0
16	Casing Joint	13 3/8	12.615	54.50	J-55	ST&C	43	704	661.19		1,130.0
1	Float Collar	13 3/8	12.615	54.50	J-55	ST&C	704	705	1.38		
1	Casing Joint	13 3/8	12.615	54.50	J-55	ST&C	705	748	42.89		1,130.0
1	Float Shoe	13 3/8	12.615	54.50	J-55	ST&C	748	750	1.78		

Intermediate Casing 1, Planned?-N, 4,605ftKB

Set Depth (MD) (ftKB)	Set Tension (kips)	String Nominal OD (in)	String Min Drift (in)	Centralizers	Scratchers
4,605		9 5/8	8.688	30	

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)
0	Casing Joint	9 5/8	8.835	40.00	HCK-55	LT&C	34	34	0.00	3,950.0	4,230.0
0	Landing Joint	9 5/8	8.835	40.00	HCK-55	LT&C	34	34	0.00	3,950.0	4,230.0
1	Hanger	9 5/8	8.835	40.00	HCK-55	LT&C	34	37	2.44	3,950.0	4,230.0
1	Casing Pup Joint	9 5/8	8.835	40.00	HCK-55	LT&C	37	41	4.20	3,950.0	4,230.0
108	Casing Joint	9 5/8	8.835	40.00	HCK-55	LT&C	41	4,521	4,480.03	3,950.0	4,230.0
1	Float Collar	9 5/8	8.835			LT&C	4,521	4,523	1.49		
2	Casing Joint	9 5/8	8.835	40.00	HCK-55	LT&C	4,523	4,603	80.86	3,950.0	4,230.0
1	Float Shoe	9 5/8	8.835			LT&C	4,603	4,605	1.62		

Production Casing, Planned?-N, 18,694ftKB

Set Depth (MD) (ftKB)	Set Tension (kips)	String Nominal OD (in)	String Min Drift (in)	Centralizers	Scratchers
18,694		5 1/2		171	

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	Landing Joint	5 1/2	4.800	20.00	P-110	TXP-BTC	-7	34	40.66		
1	Hanger	5 1/2	4.800	20.00	P-110	TXP-BTC	34	35	1.28		
1	Hanger Pup	5 1/2	4.800	20.00	P-110	TXP-BTC	35	40	4.35		
20	Casing Joint	5 1/2	4.800	20.00	P-110	TXP-BTC	40	834	793.98		
1	Pup Joint	5 1/2	4.800	20.00	P-110	TXP-BTC	834	839	5.17		
198	Casing Joint	5 1/2	4.800	20.00	P-110	TXP-BTC	839	8,594	7,755.15		
1	Marker Joint	5 1/2	4.800	20.00	P-110	TXP-BTC	8,594	8,604	10.31		
254	Casing Joint	5 1/2	4.800	20.00	P-110	TXP-BTC	8,604	18,527	9,922.85		
1	Pup Jt	5 1/2	4.800	20.00	P-110	TXP-BTC	18,527	18,537	9.86		
1	RSI	5 1/2	4.800	20.00	P-110	TXP-BTC	18,537	18,544	6.66		
1	Pup Jt	5 1/2	4.800	20.00	P-110	TXP-BTC	18,544	18,554	9.87		
1	Casing Joint	5 1/2	4.800	20.00	P-110	TXP-BTC	18,554	18,593	39.17		
1	Pup Jt	5 1/2	4.800	20.00	P-110	TXP-BTC	18,593	18,602	9.67		
1	Land Collar	5 1/2	4.800	20.00	P-110	TXP-BTC	18,602	18,604	1.46		
1	Casing Joint	5 1/2	4.800	20.00	P-110	TXP-BTC	18,604	18,644	40.01		
1	Float Collar	5 1/2	4.800	20.00	P-110	TXP-BTC	18,644	18,646	2.42		
1	XRV	5 1/2	4.800	20.00	P-110	TXP-BTC	18,646	18,649	2.22		
1	Casing Joint	5 1/2	4.800	20.00	P-110	TXP-BTC	18,649	18,691	42.42		
1	Float Shoe	5 1/2	4.800	20.00	P-110	TXP-BTC	18,691	18,694	3.04		

Report Printed: 10/6/2016

Cement Summary

Surface Casing Cement

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 24 FED P23 004H		JENNINGS	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)

Original Hole

Wellbore Name	Directional Type	Mn Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole	Horizontal	8,600.0	359.71

Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)
17 1/2	155.0	760.0
12 1/4	760.0	4,615.0
8 3/4	4,615.0	18,709.0

Multi-bowl, FMC on 8/19/2016 04:30

Sub-Type	Install Date
Multi-bowl	8/19/2016

Des	Make	Model	WP (psi)	Service	SN

Surface, Planned?-N, 750ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Surface	Original Hole	8/19/2016	750	-35.7	

Centralizers	Scratchers
7	

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		13 3/8	12.615	54.50	J-55	13 3/8	ST&C	2.90	36	39
1	Casing Pup Joint	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	4.13	39	43
16	Casing Joint	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	661.19	43	704
1	Float Collar	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	1.38	704	705
1	Casing Joint	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	42.89	705	748
1	Float Shoe	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	1.78	748	750

Intermediate Casing 1, Planned?-N, 4,605ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Intermediate Casing 1	Original Hole	9/8/2016	4,605	-34.4	

Centralizers	Scratchers
30	

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)
0	Casing Joint	9 5/8	8.835	40.00	HCK-55	9 5/8	LT&C	0.00	34	34
0	Landing Joint	9 5/8	8.835	40.00	HCK-55	9 5/8	LT&C	0.00	34	34
1	Hanger	9 5/8	8.835	40.00	HCK-55	9 5/8	LT&C	2.44	34	37
1	Casing Pup Joint	9 5/8	8.835	40.00	HCK-55	9 5/8	LT&C	4.20	37	41
108	Casing Joint	9 5/8	8.835	40.00	HCK-55	9 5/8	LT&C	4,480.03	41	4,521
1	Float Collar	9 5/8	8.835			9 5/8	LT&C	1.49	4,521	4,523
2	Casing Joint	9 5/8	8.835	40.00	HCK-55	9 5/8	LT&C	80.86	4,523	4,603
1	Float Shoe	9 5/8	8.835			9 5/8	LT&C	1.62	4,603	4,605

Production Casing, Planned?-N, 18,694ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Production Casing	Original Hole	9/29/2016	18,694	6.5	

Centralizers	Scratchers
171	

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	Landing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	40.66	-7	34
1	Hanger	5 1/2	4.800	20.00	P-110		TXP-BTC	1.28	34	35
1	Hanger Pup	5 1/2	4.800	20.00	P-110		TXP-BTC	4.35	35	40
20	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	793.98	40	834
1	Pup Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	5.17	834	839
198	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	7,755.15	839	8,594
1	Marker Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	10.31	8,594	8,604
254	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	9,922.85	8,604	18,527
1	Pup Jt	5 1/2	4.800	20.00	P-110		TXP-BTC	9.86	18,527	18,537

Report Printed: 10/6/2016

Cement Summary

Surface Casing Cement

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 24 FED P23 004H		JENNINGS	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	RSI	5 1/2	4.800	20.00	P-110		TXP-BTC	6.66	18,537	18,544
1	Pup Jt	5 1/2	4.800	20.00	P-110		TXP-BTC	9.87	18,544	18,554
1	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	39.17	18,554	18,593
1	Pup Jt	5 1/2	4.800	20.00	P-110		TXP-BTC	9.67	18,593	18,602
1	Land Collar	5 1/2	4.800	20.00	P-110		TXP-BTC	1.46	18,602	18,604
1	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	40.01	18,604	18,644
1	Float Collar	5 1/2	4.800	20.00	P-110		TXP-BTC	2.42	18,644	18,646
1	XRV	5 1/2	4.800	20.00	P-110		TXP-BTC	2.22	18,646	18,649
1	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	42.42	18,649	18,691
1	Float Shoe	5 1/2	4.800	20.00	P-110		TXP-BTC	3.04	18,691	18,694

Surface Casing Cement, Casing, 8/19/2016 12:30

Cementing Start Date	Cementing End Date	Wellbore
8/19/2016	8/19/2016	Original Hole

Evaluation Method	Cement Evaluation Results
Returns to Surface	85 bbls of cement to surface

Comment

1, 35.8-750.0ftKB

Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	Top Plug?	Bottom Plug?
35.8	750.0	N	85.0	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	2.3	5	280.0	829.0

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

Preflush

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Preflush				50.0

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)
	8.40			

Cement Fluid Additives

Add	Type	Conc

Tail

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Tail		844	C	200.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
35.8	750.0	125.0	1.33	6.36

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
	14.80		4.13	93.0

Cement Fluid Additives

Add	Type	Conc

Displacement

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Displacement				109.0

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)
	10.00			

Cement Fluid Additives

Add	Type	Conc

Report Printed: 10/6/2016

Cement Summary

Intermediate Casing Cement

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 24 FED P23 004H		JENNINGS	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)

Original Hole

Wellbore Name	Directional Type	Mn Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole	Horizontal	8,600.0	359.71

Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)
17 1/2	155.0	760.0
12 1/4	760.0	4,615.0
8 3/4	4,615.0	18,709.0

Multi-bowl, FMC on 8/19/2016 04:30

Sub-Type	Install Date
Multi-bowl	8/19/2016

Des	Make	Model	WP (psi)	Service	SN

Surface, Planned?-N, 750ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Surface	Original Hole	8/19/2016	750	-35.7	

Centralizers	Scratchers
7	

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		13 3/8	12.615	54.50	J-55	13 3/8	ST&C	2.90	36	39
1	Casing Pup Joint	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	4.13	39	43
16	Casing Joint	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	661.19	43	704
1	Float Collar	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	1.38	704	705
1	Casing Joint	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	42.89	705	748
1	Float Shoe	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	1.78	748	750

Intermediate Casing 1, Planned?-N, 4,605ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Intermediate Casing 1	Original Hole	9/8/2016	4,605	-34.4	

Centralizers	Scratchers
30	

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)
0	Casing Joint	9 5/8	8.835	40.00	HCK-55	9 5/8	LT&C	0.00	34	34
0	Landing Joint	9 5/8	8.835	40.00	HCK-55	9 5/8	LT&C	0.00	34	34
1	Hanger	9 5/8	8.835	40.00	HCK-55	9 5/8	LT&C	2.44	34	37
1	Casing Pup Joint	9 5/8	8.835	40.00	HCK-55	9 5/8	LT&C	4.20	37	41
108	Casing Joint	9 5/8	8.835	40.00	HCK-55	9 5/8	LT&C	4,480.03	41	4,521
1	Float Collar	9 5/8	8.835			9 5/8	LT&C	1.49	4,521	4,523
2	Casing Joint	9 5/8	8.835	40.00	HCK-55	9 5/8	LT&C	80.86	4,523	4,603
1	Float Shoe	9 5/8	8.835			9 5/8	LT&C	1.62	4,603	4,605

Production Casing, Planned?-N, 18,694ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Production Casing	Original Hole	9/29/2016	18,694	6.5	

Centralizers	Scratchers
171	

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	Landing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	40.66	-7	34
1	Hanger	5 1/2	4.800	20.00	P-110		TXP-BTC	1.28	34	35
1	Hanger Pup	5 1/2	4.800	20.00	P-110		TXP-BTC	4.35	35	40
20	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	793.98	40	834
1	Pup Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	5.17	834	839
198	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	7,755.15	839	8,594
1	Marker Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	10.31	8,594	8,604
254	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	9,922.85	8,604	18,527
1	Pup Jt	5 1/2	4.800	20.00	P-110		TXP-BTC	9.86	18,527	18,537

Report Printed: 10/6/2016

Chevron

Cement Summary

Intermediate Casing Cement

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 24 FED P23 004H		JENNINGS	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	RSI	5 1/2	4.800	20.00	P-110		TXP-BTC	6.66	18,537	18,544
1	Pup Jt	5 1/2	4.800	20.00	P-110		TXP-BTC	9.87	18,544	18,554
1	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	39.17	18,554	18,593
1	Pup Jt	5 1/2	4.800	20.00	P-110		TXP-BTC	9.67	18,593	18,602
1	Land Collar	5 1/2	4.800	20.00	P-110		TXP-BTC	1.46	18,602	18,604
1	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	40.01	18,604	18,644
1	Float Collar	5 1/2	4.800	20.00	P-110		TXP-BTC	2.42	18,644	18,646
1	XRV	5 1/2	4.800	20.00	P-110		TXP-BTC	2.22	18,646	18,649
1	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	42.42	18,649	18,691
1	Float Shoe	5 1/2	4.800	20.00	P-110		TXP-BTC	3.04	18,691	18,694

Intermediate Casing Cement, Casing, 9/8/2016 05:00

Cementing Start Date	Cementing End Date	Wellbore
9/8/2016	9/8/2016	Original Hole

Evaluation Method	Cement Evaluation Results
Returns to Surface	226 bbls of cement to surface

Comment

1, 32.6-4,605.0ftKB

Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	Top Plug?	Bottom Plug?
32.6	4,605.0	Y	226.0	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)
4.8	2.5	6.5	1,179.0	1,750.0

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

Spacer

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Spacer	30 bbl dyed spacer			30.0

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

Lead

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Lead	3% BWOB D020 + 5% BWOB D044 + 0.2% BWOB D046 + 10% BWOB D154	1,001	C	453.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
35.4	3,600.0	150.0	2.54	13.86

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
	11.90		7.00	

Cement Fluid Additives

Add	Type	Conc

Tail

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Tail	0.01 gal/sk D177 Spike	426	C	106.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
3,600.0	4,605.0	85.0	1.33	6.37

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
	14.80		3.50	

Report Printed: 10/6/2016

Cement Summary

Intermediate Casing Cement

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 24 FED P23 004H		JENNINGS	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)

Cement Fluid Additives

Add	Type	Conc

Displacement

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Displacement	Oil Based Mud			334.0
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)
	9.00			

Cement Fluid Additives

Add	Type	Conc

Report Printed: 10/6/2016

Cement Summary

Production Casing Cement

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 24 FED P23 004H		JENNINGS	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)

Original Hole

Wellbore Name	Directional Type	Min Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole	Horizontal	8,600.0	359.71

Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)
17 1/2	155.0	760.0
12 1/4	760.0	4,615.0
8 3/4	4,615.0	18,709.0

Multi-bowl, FMC on 8/19/2016 04:30

Sub-Type	Install Date
Multi-bowl	8/19/2016

Des	Make	Model	WP (psi)	Service	SN

Surface, Planned?-N, 750ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Surface	Original Hole	8/19/2016	750	-35.7	

Centralizers	Scratchers
7	

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	36	39
1	Casing Pup Joint	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	4.13	39	43
16	Casing Joint	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	661.19	43	704
1	Float Collar	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	1.38	704	705
1	Casing Joint	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	42.89	705	748
1	Float Shoe	13 3/8	12.615	54.50	J-55	13 3/8	ST&C	1.78	748	750

Intermediate Casing 1, Planned?-N, 4,605ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Intermediate Casing 1	Original Hole	9/8/2016	4,605	-34.4	

Centralizers	Scratchers
30	

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 Joint	9 5/8	8.835	40.00	HCK-55	9 5/8	LT&C	0.00	34	34
1	Landing Joint	9 5/8	8.835	40.00	HCK-55	9 5/8	LT&C	0.00	34	34
1	Hanger	9 5/8	8.835	40.00	HCK-55	9 5/8	LT&C	2.44	34	37
1	Casing Pup Joint	9 5/8	8.835	40.00	HCK-55	9 5/8	LT&C	4.20	37	41
108	Casing Joint	9 5/8	8.835	40.00	HCK-55	9 5/8	LT&C	4,480.03	41	4,521
1	Float Collar	9 5/8	8.835			9 5/8	LT&C	1.49	4,521	4,523
2	Casing Joint	9 5/8	8.835	40.00	HCK-55	9 5/8	LT&C	80.86	4,523	4,603
1	Float Shoe	9 5/8	8.835			9 5/8	LT&C	1.62	4,603	4,605

Production Casing, Planned?-N, 18,694ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Production Casing	Original Hole	9/29/2016	18,694	-35.7	

Centralizers	Scratchers
170	

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)
24	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	0.00	36	36
1	Hanger	5 1/2	4.800	20.00	P-110		TXP-BTC	1.28	36	37
1	Hanger Pup	5 1/2	4.800	20.00	P-110		TXP-BTC	4.35	37	41
20	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	793.98	41	835
1	Pup Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	5.14	835	840
198	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	7,755.15	840	8,596
1	Marker Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	10.28	8,596	8,606
254	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	9,921.27	8,606	18,527
1	Pup Jt	5 1/2	4.800	20.00	P-110		TXP-BTC	9.86	18,527	18,537

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Cement Summary

Production Casing Cement

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 24 FED P23 004H		JENNINGS	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	RSI	5 1/2	4.800	20.00	P-110		TXP-BTC	6.66	18,537	18,544
1	Pup Jt	5 1/2	4.800	20.00	P-110		TXP-BTC	9.87	18,544	18,554
1	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	39.17	18,554	18,593
1	Pup Jt	5 1/2	4.800	20.00	P-110		TXP-BTC	9.67	18,593	18,602
1	Land Collar	5 1/2	4.800	20.00	P-110		TXP-BTC	1.46	18,602	18,604
1	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	40.01	18,604	18,644
1	Float Collar	5 1/2	4.800	20.00	P-110		TXP-BTC	2.42	18,644	18,646
1	XRV	5 1/2	4.800	20.00	P-110		TXP-BTC	2.22	18,646	18,649
1	Casing Joint	5 1/2	4.800	20.00	P-110		TXP-BTC	42.42	18,649	18,691
1	Float Shoe	5 1/2	4.800	20.00	P-110		TXP-BTC	3.04	18,691	18,694

Production Casing Cement, Casing, 9/30/2016 07:00

Cementing Start Date	Cementing End Date	Wellbore
9/30/2016	9/30/2016	Original Hole

Evaluation Method	Cement Evaluation Results
Lift Pressure	1650 FCP at 4 bpm

Comment

1, 2,901.0-18,709.0ftKB

Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	Top Plug?	Bottom Plug?
2,901.0	18,709.0	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)
4.2	4	6.5	1,650.0	2,200.0

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

Spacer

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Spacer	50 bbl MPE 114 bbl MRF			164.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
0.0	2,901.0			

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

Cement Fluid Additives

Add	Type	Conc

Lead

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Lead	Lead 1 spiked 0.5/10 bbl D177 and CemNet added - 301 bbl, 621 sx, 11.5 ppg	621	H	301.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
2,901.0	49,558.0	50.0	2.72	15.89

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

Cement Fluid Additives

Add	Type	Conc

Lead

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Lead	Lead 2 spiked 0.5/10 bbl D177 - 575 bbl, 1993 sx, 12.5 ppg	1,993	H	575.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
49,558.0	17,738.0	35.0	1.62	8.48

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
	12.50			

Report Printed: 10/28/2016

Chevron

Cement Summary

Production Casing Cement

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 24 FED P23 004H		JENNINGS	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)

Cement Fluid Additives

Add	Type	Conc

Tail

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Tail	Tail - 43 bbl, 111 sx, 15 ppg	111	H	43.0
Estimated Top (ftKB)	**Estimated Bottom Depth (ftKB)**	**Percent Excess Pumped (%)**	**Yield (ft³/sack)**	**Fluid Mix Ratio (gal/sack)**
17,738.0	18,709.0	0.0	2.18	9.56
Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	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	411 bbl fresh water			411.0
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)

Cement Fluid Additives

Add	Type	Conc

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