

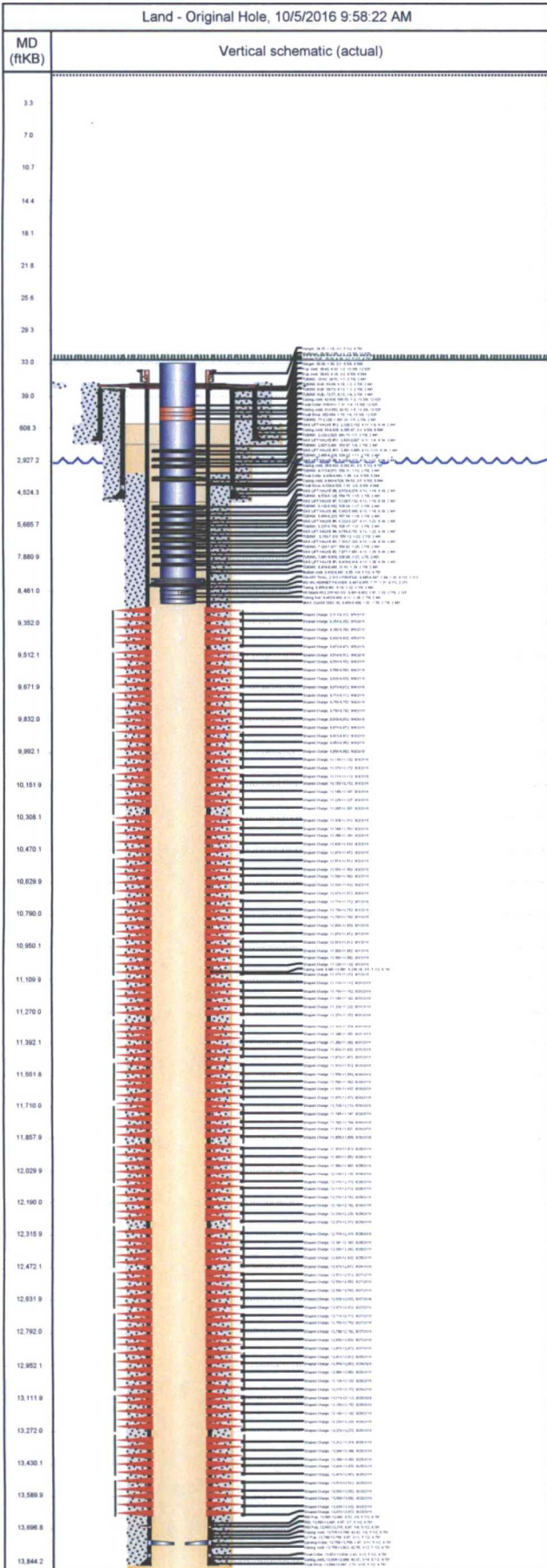


Wellbore Schematic

HOBBS OCD

DEC 05 2016

Well Name SALADO DRAW WE 23 FED P5 001H	Lease	Field Name JENNINGS	Business Unit Mid-Continent
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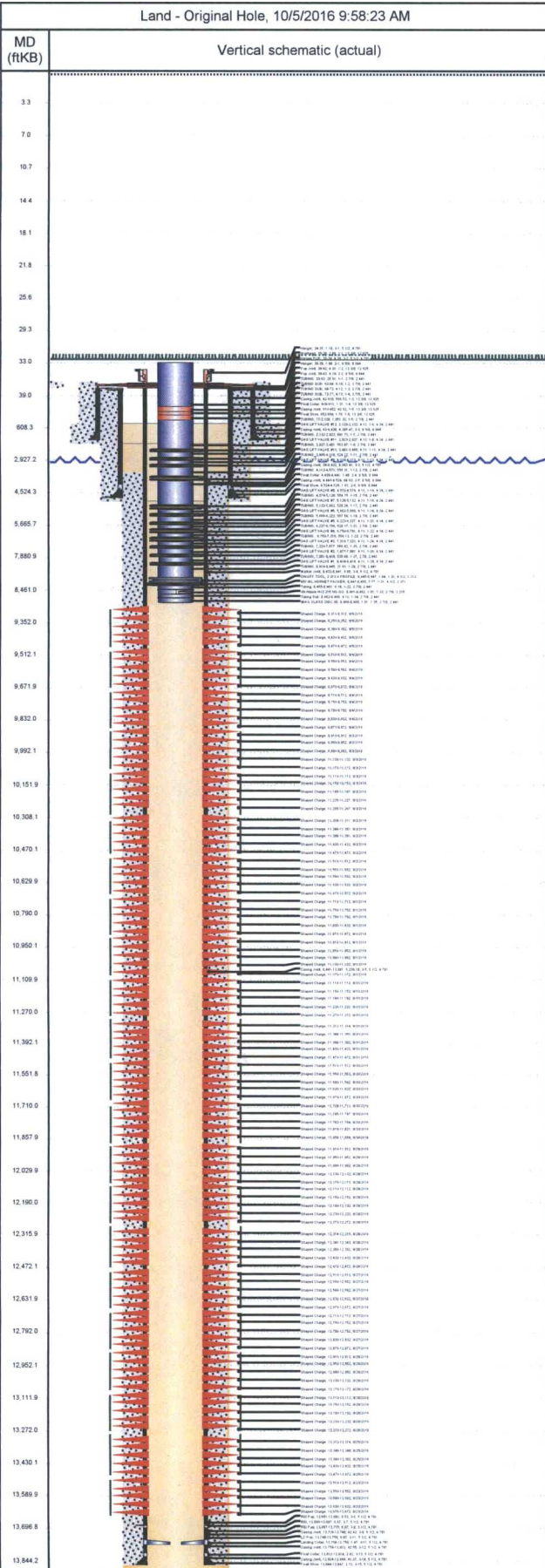


Job Details						
Job Category			Start Date		Rig/Unit End Date	
Completion			8/19/2016		8/24/2016	
Completion			8/24/2016		9/8/2016	
Completion			9/8/2016		9/17/2016	
Completion			9/8/2016		9/12/2016	
Completion			9/21/2016		9/23/2016	
Casing Strings						
Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Set Depth (MD) (ftKB)	
Surface	13 3/8	54.50	J-55	ST&C	654	
Intermediate Casing 1	9 5/8	40.00	HCK-55	LT&C	4,526	
Production Casing	5 1/2	20.00	HCP-110	TXP-BTC-S	13,847	
Tubing Strings						
TUBING set at 8,467.8ftKB on 9/22/2016 15:00						
Tubing Description			Run Date	String Length (ft)	Set Depth (MD) (ftKB)	
TUBING			9/22/2016	8,434.77	8,467.8	
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Btm (ftKB)
TUBING	1	2 7/8	6.50	L-80	29.50	62.5
TUBING SUB	1	2 7/8	6.50	L-80	6.18	68.7
TUBING SUB	1	2 7/8	6.50	L-80	4.12	72.8
TUBING SUB	1	2 7/8	6.50	L-80	4.13	76.9
TUBING	63	2 7/8	6.50	L-80	1,951.30	2,028.2
GAS LIFT VALVE #12	1	4.335			4.10	2,032.3
TUBING	29	2 7/8	6.50	L-80	890.70	2,923.0
GAS LIFT VALVE #11	1	4.335			4.10	2,927.1
TUBING	18	2 7/8	6.50	L-80	553.87	3,481.0
GAS LIFT VALVE #10	1	4.335			4.10	3,485.1
TUBING	17	2 7/8	6.50	L-80	524.02	4,009.1
GAS LIFT VALVE #9	1	4.335			4.10	4,013.2
TUBING	18	2 7/8	6.50	L-80	556.31	4,569.5
GAS LIFT VALVE #8	1	4.335			4.10	4,573.6
TUBING	18	2 7/8	6.50	L-80	554.75	5,128.4
GAS LIFT VALVE #7	1	4.335			4.10	5,132.5
TUBING	17	2 7/8	6.50	L-80	529.24	5,661.7
GAS LIFT VALVE #6	1	4.335			4.10	5,665.8
TUBING	18	2 7/8	6.50	L-80	557.54	6,223.4
GAS LIFT VALVE #5	1	4.335			4.10	6,227.5
TUBING	17	2 7/8	6.50	L-80	528.07	6,755.5
GAS LIFT VALVE #4	1	4.335			4.10	6,759.6
TUBING	18	2 7/8	6.50	L-80	556.13	7,315.8
GAS LIFT VALVE #3	1	4.335			4.10	7,319.9
TUBING	18	2 7/8	6.50	L-80	556.82	7,876.7
GAS LIFT VALVE #2	1	4.335			4.10	7,880.8
TUBING	17	2.785	6.50	L-80	528.68	8,409.5
GAS LIFT VALVE #1	1	4.335			4.10	8,413.6
TUBING	1	2 7/8	6.50	L-80	31.60	8,445.2
ON-OFF TOOL, 2.313 X PROFILE	1	4 1/2			1.84	8,447.0
450 WL HORNET PACKER	1	4 1/2			7.77	8,454.8
Tubing	1	2 7/8	6.50	L-80	6.18	8,461.0
XN Nipple W/2.205 NO-GO	1	2 7/8			0.81	8,461.8
Tubing Sub	1	2 7/8	6.50	L-80	4.10	8,465.9
IMAG GLASS DISC (6)	1	2 7/8			1.91	8,467.8
Perforations						
Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Linked Zone	
9/5/2016	9,310.0	9,312.0	6.0	12	Avalon, Original Hole	
9/5/2016	9,350.0	9,352.0	6.0	12	Avalon, Original Hole	
9/5/2016	9,390.0	9,392.0	6.0	12	Avalon, Original Hole	
9/5/2016	9,430.0	9,432.0	6.0	12	Avalon, Original Hole	
9/5/2016	9,470.0	9,472.0	6.0	12	Avalon, Original Hole	



Wellbore Schematic

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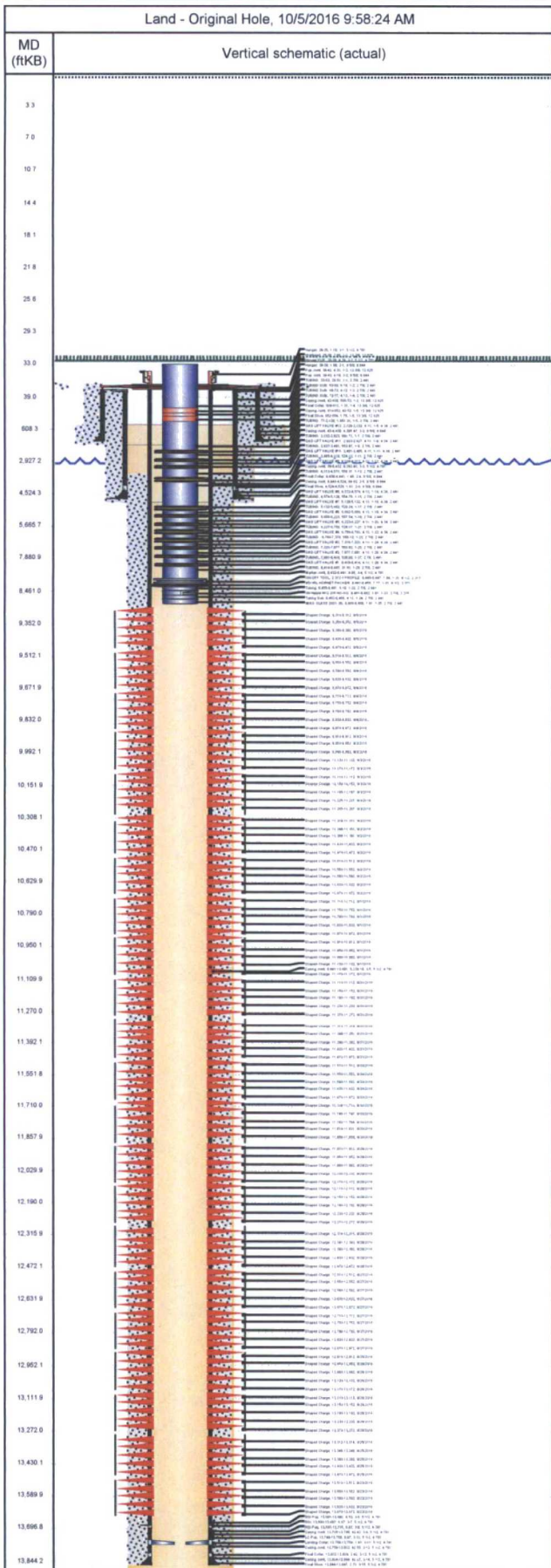


Perforations					
Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Linked Zone
9/4/2016	9,510.0	9,512.0	6.0	12	Avalon, Original Hole
9/4/2016	9,550.0	9,552.0	6.0	12	Avalon, Original Hole
9/4/2016	9,590.0	9,592.0	6.0	12	Avalon, Original Hole
9/4/2016	9,630.0	9,632.0	6.0	12	Avalon, Original Hole
9/4/2016	9,670.0	9,672.0	6.0	12	Avalon, Original Hole
9/4/2016	9,710.0	9,712.0	6.0	12	Avalon, Original Hole
9/4/2016	9,750.0	9,752.0	6.0	12	Avalon, Original Hole
9/4/2016	9,790.0	9,792.0	6.0	12	Avalon, Original Hole
9/4/2016	9,830.0	9,832.0	6.0	12	Avalon, Original Hole
9/4/2016	9,870.0	9,872.0	6.0	12	Avalon, Original Hole
9/3/2016	9,910.0	9,912.0	6.0	12	Avalon, Original Hole
9/3/2016	9,950.0	9,952.0	6.0	12	Avalon, Original Hole
9/3/2016	9,990.0	9,992.0	6.0	12	Avalon, Original Hole
9/3/2016	10,030.0	10,032.0	6.0	12	Avalon, Original Hole
9/3/2016	10,070.0	10,072.0	6.0	12	Avalon, Original Hole
9/3/2016	10,110.0	10,112.0	6.0	12	Avalon, Original Hole
9/3/2016	10,150.0	10,152.0	6.0	12	Avalon, Original Hole
9/3/2016	10,185.0	10,187.0	6.0	12	Avalon, Original Hole
9/3/2016	10,225.0	10,227.0	6.0	12	Avalon, Original Hole
9/3/2016	10,265.0	10,267.0	6.0	12	Avalon, Original Hole
9/2/2016	10,308.0	10,310.0	6.0	12	Avalon, Original Hole
9/2/2016	10,348.0	10,350.0	6.0	12	Avalon, Original Hole
9/2/2016	10,388.0	10,390.0	6.0	12	Avalon, Original Hole
9/2/2016	10,430.0	10,432.0	6.0	12	Avalon, Original Hole
9/2/2016	10,470.0	10,472.0	6.0	12	Avalon, Original Hole
9/2/2016	10,510.0	10,512.0	6.0	12	Avalon, Original Hole
9/2/2016	10,550.0	10,552.0	6.0	12	Avalon, Original Hole
9/2/2016	10,590.0	10,592.0	6.0	12	Avalon, Original Hole
9/2/2016	10,630.0	10,632.0	6.0	12	Avalon, Original Hole
9/2/2016	10,670.0	10,672.0	6.0	12	Avalon, Original Hole
9/1/2016	10,710.0	10,712.0	6.0	12	Avalon, Original Hole
9/1/2016	10,750.0	10,752.0	6.0	12	Avalon, Original Hole
9/1/2016	10,790.0	10,792.0	6.0	12	Avalon, Original Hole
9/1/2016	10,830.0	10,832.0	6.0	12	Avalon, Original Hole
9/1/2016	10,870.0	10,872.0	6.0	12	Avalon, Original Hole
9/1/2016	10,910.0	10,912.0	6.0	12	Avalon, Original Hole
9/1/2016	10,950.0	10,952.0	6.0	12	Avalon, Original Hole
9/1/2016	10,990.0	10,992.0	6.0	12	Avalon, Original Hole
9/1/2016	11,030.0	11,032.0	6.0	12	Avalon, Original Hole
9/1/2016	11,070.0	11,072.0	6.0	12	Avalon, Original Hole
8/31/2016	11,110.0	11,112.0	6.0	12	Avalon, Original Hole
8/31/2016	11,150.0	11,152.0	6.0	12	Avalon, Original Hole
8/31/2016	11,190.0	11,192.0	6.0	12	Avalon, Original Hole
8/31/2016	11,230.0	11,232.0	6.0	12	Avalon, Original Hole
8/31/2016	11,270.0	11,272.0	6.0	12	Avalon, Original Hole
8/31/2016	11,312.0	11,314.0	6.0	12	Avalon, Original Hole
8/31/2016	11,348.0	11,350.0	6.0	12	Avalon, Original Hole
8/31/2016	11,390.0	11,392.0	6.0	12	Avalon, Original Hole
8/31/2016	11,430.0	11,432.0	6.0	12	Avalon, Original Hole
8/31/2016	11,470.0	11,472.0	6.0	12	Avalon, Original Hole
8/30/2016	11,510.0	11,512.0	6.0	12	Avalon, Original Hole
8/30/2016	11,550.0	11,552.0	6.0	12	Avalon, Original Hole
8/30/2016	11,590.0	11,592.0	6.0	12	Avalon, Original Hole
8/30/2016	11,630.0	11,632.0	6.0	12	Avalon, Original Hole
8/30/2016	11,670.0	11,672.0	6.0	12	Avalon, Original Hole
8/30/2016	11,708.0	11,710.0	6.0	12	Avalon, Original Hole
8/30/2016	11,745.0	11,747.0	6.0	12	Avalon, Original Hole
8/30/2016	11,782.0	11,784.0	6.0	12	Avalon, Original Hole



Wellbore Schematic

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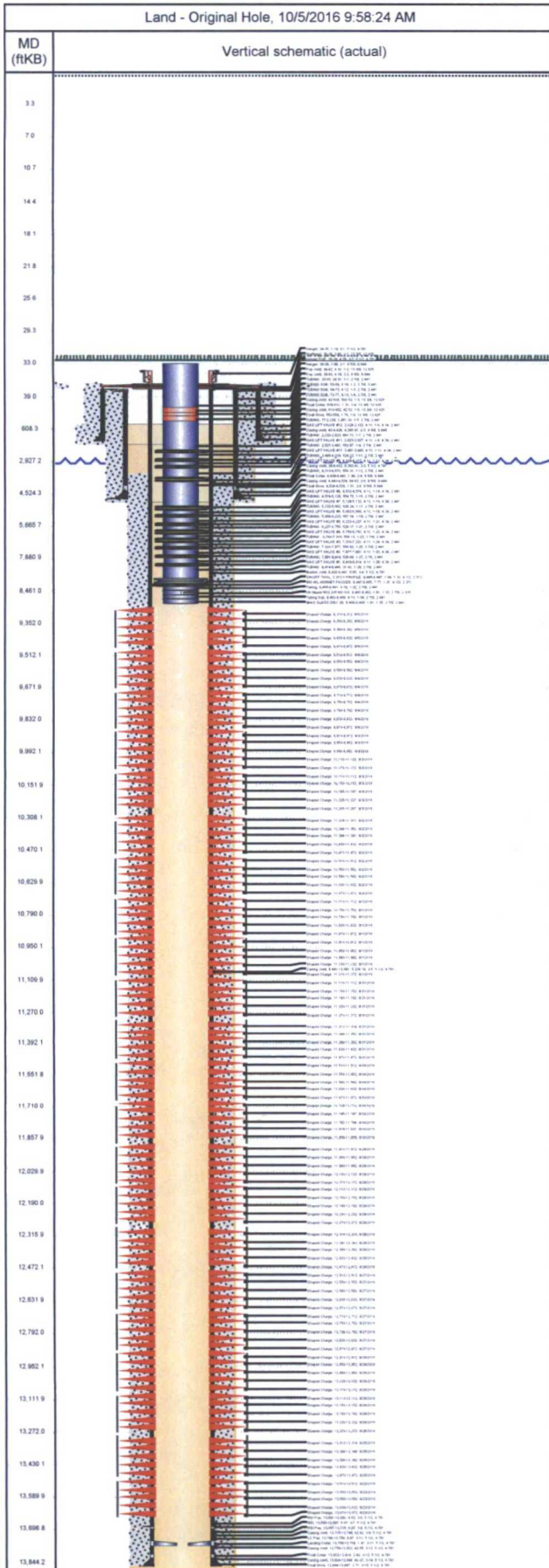
Perforations					
Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Linked Zone
8/30/2016	11,819.0	11,821.0	6.0	12	Avalon, Original Hole
8/30/2016	11,856.0	11,858.0	6.0	12	Avalon, Original Hole
8/29/2016	11,910.0	11,912.0	6.0	12	Avalon, Original Hole
8/29/2016	11,950.0	11,952.0	6.0	12	Avalon, Original Hole
8/29/2016	11,990.0	11,992.0	6.0	12	Avalon, Original Hole
8/29/2016	12,030.0	12,032.0	6.0	12	Avalon, Original Hole
8/29/2016	12,070.0	12,072.0	6.0	12	Avalon, Original Hole
8/29/2016	12,110.0	12,112.0	6.0	12	Avalon, Original Hole
8/29/2016	12,150.0	12,152.0	6.0	12	Avalon, Original Hole
8/29/2016	12,190.0	12,192.0	6.0	12	Avalon, Original Hole
8/29/2016	12,230.0	12,232.0	6.0	12	Avalon, Original Hole
8/29/2016	12,270.0	12,272.0	6.0	12	Avalon, Original Hole
8/28/2016	12,314.0	12,316.0	6.0		Avalon, Original Hole
8/28/2016	12,341.0	12,343.0	6.0		Avalon, Original Hole
8/28/2016	12,390.0	12,392.0	6.0		Avalon, Original Hole
8/28/2016	12,430.0	12,432.0	6.0		Avalon, Original Hole
8/28/2016	12,470.0	12,472.0	6.0		Avalon, Original Hole
8/27/2016	12,510.0	12,512.0	6.0	12	Avalon, Original Hole
8/27/2016	12,550.0	12,552.0	6.0	12	Avalon, Original Hole
8/27/2016	12,590.0	12,592.0	6.0	12	Avalon, Original Hole
8/27/2016	12,630.0	12,632.0	6.0	12	Avalon, Original Hole
8/27/2016	12,670.0	12,672.0	6.0	12	Avalon, Original Hole
8/27/2016	12,710.0	12,712.0	6.0	12	Avalon, Original Hole
8/27/2016	12,750.0	12,752.0	6.0	12	Avalon, Original Hole
8/27/2016	12,790.0	12,792.0	6.0	12	Avalon, Original Hole
8/27/2016	12,830.0	12,832.0	6.0	12	Avalon, Original Hole
8/27/2016	12,870.0	12,872.0	6.0	12	Avalon, Original Hole
8/26/2016	12,910.0	12,912.0	6.0	12	Avalon, Original Hole
8/26/2016	12,950.0	12,952.0	6.0	12	Avalon, Original Hole
8/26/2016	12,990.0	12,992.0	6.0	12	Avalon, Original Hole
8/26/2016	13,030.0	13,032.0	6.0	12	Avalon, Original Hole
8/26/2016	13,070.0	13,072.0	6.0	12	Avalon, Original Hole
8/26/2016	13,110.0	13,112.0	6.0	12	Avalon, Original Hole
8/26/2016	13,150.0	13,152.0	6.0	12	Avalon, Original Hole
8/26/2016	13,190.0	13,192.0	6.0	12	Avalon, Original Hole
8/26/2016	13,230.0	13,232.0	6.0	12	Avalon, Original Hole
8/26/2016	13,270.0	13,272.0	6.0	12	Avalon, Original Hole
8/25/2016	13,312.0	13,314.0	6.0	12	Avalon, Original Hole
8/25/2016	13,346.0	13,348.0	6.0	12	Avalon, Original Hole
8/25/2016	13,390.0	13,392.0	6.0	12	Avalon, Original Hole
8/25/2016	13,430.0	13,432.0	6.0	12	Avalon, Original Hole
8/25/2016	13,470.0	13,472.0	6.0	12	Avalon, Original Hole
8/23/2016	13,510.0	13,512.0	6.0	12	Avalon, Original Hole
8/23/2016	13,550.0	13,552.0	6.0	12	Avalon, Original Hole
8/23/2016	13,590.0	13,592.0	6.0	12	Avalon, Original Hole
8/23/2016	13,630.0	13,632.0	6.0	12	Avalon, Original Hole
8/23/2016	13,670.0	13,672.0	6.0	12	Avalon, Original Hole

Other Strings					
Run Date	Pull Date	Set Depth (ftKB)	Com		
Other In Hole					
Des	Top (ftKB)	Btm (ftKB)	Run Date	Pull Date	Com
Composite Frac Plug (drop ball)	9,490.0	9,492.0	9/5/2016	9/9/2016	Stage 22
Composite Frac Plug (drop ball)	9,690.0	9,692.0	9/4/2016	9/9/2016	Stage 21
Composite Frac Plug (drop ball)	9,890.0	9,892.0	9/4/2016	9/9/2016	Stage 20



Wellbore Schematic

Well Name SALADO DRAW WE 23 FED P5 001H	Lease	Field Name JENNINGS	Business Unit Mid-Continent
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Other In Hole					
Des	Top (ftKB)	Btm (ftKB)	Run Date	Pull Date	Com
Composite Frac Plug (drop ball)	10,090.0	10,092.0	9/3/2016	9/9/2016	Stage 19
Composite Frac Plug (drop ball)	10,290.0	10,292.0	9/3/2016	9/9/2016	Stage 18
Composite Frac Plug (drop ball)	10,490.0	10,492.0	9/2/2016	9/9/2016	Stage 17
Composite Frac Plug (drop ball)	10,693.0	10,695.0	9/2/2016	9/9/2016	Stage 16
Composite Frac Plug (drop ball)	10,888.0	10,890.0	9/1/2016	9/9/2016	Stage 15
Composite Frac Plug (drop ball)	11,090.0	11,092.0	9/1/2016	9/9/2016	Stage 14
Composite Frac Plug (drop ball)	11,290.0	11,292.0	8/31/2016	9/9/2016	Stage 13
Composite Frac Plug (drop ball)	11,490.0	11,492.0	8/31/2016	9/9/2016	Stage 12
Composite Frac Plug (drop ball)	11,690.0	11,692.0	8/30/2016	9/9/2016	Stage 11
Composite Frac Plug (drop ball)	11,868.0	11,870.0	8/30/2016	9/9/2016	Stage 10
Composite Frac Plug (drop ball)	12,090.0	12,092.0	8/29/2016	9/9/2016	Stage 9
Composite Frac Plug (drop ball)	12,290.0	12,292.0	8/28/2016	9/9/2016	Stage 8
Composite Frac Plug (drop ball)	12,490.0	12,492.0	8/28/2016	9/9/2016	Stage 7
Composite Frac Plug (drop ball)	12,692.0	12,694.0	8/27/2016	9/10/2015	Stage 6
Composite Frac Plug (drop ball)	12,890.0	12,892.0	8/27/2016	9/10/2015	Stage 5
Composite Frac Plug (drop ball)	13,090.0	13,092.0	8/26/2016	9/10/2015	Stage 4
Composite Frac Plug (drop ball)	13,290.0	13,292.0	8/26/2016	9/10/2015	Stage 3
Composite Frac Plug (drop ball)	13,490.0	13,492.0	8/25/2016	9/10/2015	Stage 2



Casing Summary

Well Name SALADO DRAW WE 23 FED P5 001H		Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/3/2016		Mud Line Elevation (ft)	Water Depth (ft)

Surface, Planned?-N, 654ftKB

Set Depth (MD) (ftKB) 654		Set Tension (kips)		String Nominal OD (in) 13 3/8		String Min Drift (in) 12.469		Centralizers 8		Scratchers	
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
1	Wellhead	13 3/8	12.625	54.50	J-55	ST&C	35	38	2.86	2,730.0	1,130.0
1	Pup Joint	13 3/8	12.625	54.50	J-55	ST&C	38	42	4.30	2,730.0	1,130.0
14	Casing Joint	13 3/8	12.625	54.50	J-55	ST&C	42	608	566.53	2,730.0	1,130.0
1	Float Collar	13 3/8	12.625	54.50	J-55	ST&C	608	610	1.31	2,730.0	1,130.0
1	Casing Joint	13 3/8	12.625	54.50	J-55	ST&C	610	652	42.52	2,730.0	1,130.0
1	Float Shoe	13 3/8	12.625	54.50	J-55	ST&C	652	654	1.76	2,730.0	1,130.0

Intermediate Casing 1, Planned?-N, 4,526ftKB

Set Depth (MD) (ftKB) 4,526		Set Tension (kips)		String Nominal OD (in) 9 5/8		String Min Drift (in) 8.688		Centralizers 31		Scratchers	
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
1	Hanger	9 5/8	8.844	40.00	HCK-55	LT&C	38	39	0.98	3,950.0	4,230.0
1	Pup Joint	9 5/8	8.844	40.00	HCK-55	LT&C	39	43	4.09	3,950.0	4,230.0
10	Casing Joint	9 5/8	8.844	40.00	HCK-55	LT&C	43	4,438	4,395.47	3,950.0	4,230.0
6											
1	Float Collar	9 5/8	8.844	40.00	HCK-55	LT&C	4,438	4,440	1.48	3,950.0	4,230.0
2	Casing Joint	9 5/8	8.844	40.00	HCK-55	LT&C	4,440	4,524	84.63	3,950.0	4,230.0
1	Float Shoe	9 5/8	8.844	40.00	HCK-55	LT&C	4,524	4,526	1.61	3,950.0	4,230.0

Production Casing, Planned?-N, 13,847ftKB

Set Depth (MD) (ftKB) 13,847		Set Tension (kips)		String Nominal OD (in) 5 1/2		String Min Drift (in)		Centralizers 102		Scratchers	
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
1	Hanger	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	34	35	1.19		
1	Hanger PUP	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	35	39	4.39		
20	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	39	8,432	8,392.40		
2											
1	Marker Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	8,432	8,441	9.85		
12	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	8,441	13,681	5,239.18		
6											
1	RSI Pup	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,681	13,690	9.53		
1	RSI	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,690	13,697	6.67		
1	RSI Pup	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,697	13,706	8.67		
1	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,706	13,748	42.42		
1	LC Pup	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,748	13,758	9.87		
1	Landing Collar	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,758	13,759	1.47		
1	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,759	13,802	42.55		
1	Float Collar	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,802	13,804	2.42		
1	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,804	13,844	40.07		
1	Float Shoe	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,844	13,847	2.70		



Cement Summary

Surface Casing Cement

Well Name SALADO DRAW WE 23 FED P5 001H		Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/3/2016		Mud Line Elevation (ft)	Water Depth (ft)

Original Hole			
Wellbore Name	Directional Type	Min Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole	Horizontal	8,500.0	359.84
Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	
17 1/2	112.0	864.0	
12 1/4	664.0	4,536.0	
8 3/4	4,536.0	13,862.0	

Multi-bowl, FMC on 6/14/2016 18:00					
Sub-Type Multi-bowl			Install Date 6/14/2016		
Des	Make	Model	WP (psi)	Service	SN

Surface, Planned?-N, 654ftKB											
Casing Description Surface		Wellbore Original Hole		Run Date 6/14/2016		Set Depth (MD) (ftKB) 654		Stick Up (ftKB) -34.7		Set Tension (kips)	
Centralizers 8						Scratchers					
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	
1	Wellhead	13 3/8	12.625	54.50	J-55		ST&C	2.86	35	38	
1	Pup Joint	13 3/8	12.625	54.50	J-55		ST&C	4.30	38	42	
14	Casing Joint	13 3/8	12.625	54.50	J-55		ST&C	566.53	42	608	
1	Float Collar	13 3/8	12.625	54.50	J-55		ST&C	1.31	608	610	
1	Casing Joint	13 3/8	12.625	54.50	J-55		ST&C	42.52	610	652	
1	Float Shoe	13 3/8	12.625	54.50	J-55		ST&C	1.76	652	654	

Intermediate Casing 1, Planned?-N, 4,526ftKB											
Casing Description Intermediate Casing 1		Wellbore Original Hole	Run Date 7/20/2016		Set Depth (MD) (ftKB) 4,526		Stick Up (ftKB) -37.7		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	8.844	40.00	HCK-55		LT&C	0.98	38	39	
1	Pup Joint	9 5/8	8.844	40.00	HCK-55		LT&C	4.09	39	43	
106	Casing Joint	9 5/8	8.844	40.00	HCK-55		LT&C	4,395.47	43	4,438	
1	Float Collar	9 5/8	8.844	40.00	HCK-55		LT&C	1.48	4,438	4,440	
2	Casing Joint	9 5/8	8.844	40.00	HCK-55		LT&C	84.63	4,440	4,524	
1	Float Shoe	9 5/8	8.844	40.00	HCK-55		LT&C	1.61	4,524	4,526	

Production Casing, Planned?-N, 13,847ftKB										
Casing Description Production Casing		Wellbore Original Hole		Run Date		Set Depth (MD) (ftKB) 13,847		Stick Up (ftKB) -33.6		Set Tension (kips)
Centralizers 102					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	4.781	20.00	HCP-110		TXP-BTC-S	1.19	34	35
1	Hanger PUP	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	4.39	35	39
202	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	8,392.40	39	8,432
1	Marker Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.85	8,432	8,441
126	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	5,239.18	8,441	13,681
1	RSI Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.53	13,681	13,690
1	RSI	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	6.67	13,690	13,697
1	RSI Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	8.67	13,697	13,706
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	42.42	13,706	13,748
1	LC Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.67	13,748	13,758



Cement Summary

Surface Casing Cement

Well Name SALADO DRAW WE 23 FED P5 001H		Lease		Field Name JENNINGS		Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/3/2016				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	Landing Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	1.47	13,758	13,759
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	42.55	13,759	13,802
1	Float Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.42	13,802	13,804
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	40.07	13,804	13,844
1	Float Shoe	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.70	13,844	13,847

Surface Casing Cement, Casing, 6/14/2016 20:00

Cementing Start Date 6/14/2016		Cementing End Date 6/14/2016		Wellbore Original Hole	
Evaluation Method Returns to Surface		Cement Evaluation Results 107 bbls cmt to surface			
Comment					

1, 34.6-654.0ftKB

Top Depth (ftKB) 34.6	Bottom Depth (ftKB) 654.0	Full Return? Y	Vol Cement Ret (bbl) 107.0	Top Plug? Y	Bottom Plug? N
Initial Pump Rate (bbl/min) 2.2	Final Pump Rate (bbl/min) 2	Avg Pump Rate (bbl/min) 5.5		Final Pump Pressure (psi) 260.0	Plug Bump Pressure (psi) 780.0
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 FW w/ Dye	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

Tail

Fluid Type Tail	Fluid Description	Quantity (sacks) 845	Class C	Volume Pumped (bbl) 199.0
Estimated Top (ftKB) 34.6	Estimated Bottom Depth (ftKB) 680.0	Percent Excess Pumped (%) 125.0	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)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

Displacement

Fluid Type Displacement	Fluid Description Water Base Mud	Quantity (sacks)	Class	Volume Pumped (bbl) 94.7
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 8.60	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 23 FED P5 001H	Lease	Field Name JENNINGS	Business Unit Mid-Continent
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/3/2016	Mud Line Elevation (ft) 359.84
		Water Depth (ft)	

Original Hole

Wellbore Name Original Hole	Directional Type Horizontal	Min Kick Off Depth (ftKB) 8,500.0	Vertical Section Direction (°) 359.84
Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	
17 1/2	112.0	664.0	
12 1/4	664.0	4,536.0	
8 3/4	4,536.0	13,862.0	

Multi-bowl, FMC on 6/14/2016 18:00

Sub-Type Multi-bowl	Install Date 6/14/2016			
Des	Make	Model	WP (psi)	Service
				SN

Surface, Planned?-N, 654ftKB

Casing Description Surface	Wellbore Original Hole	Run Date 6/14/2016	Set Depth (MD) (ftKB) 654	Stick Up (ftKB) -34.7	Set Tension (kips)
Centralizers 8			Scratchers		

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Wellhead	13 3/8	12.625	54.50	J-55		ST&C	2.86	35	38
1	Pup Joint	13 3/8	12.625	54.50	J-55		ST&C	4.30	38	42
14	Casing Joint	13 3/8	12.625	54.50	J-55		ST&C	566.53	42	608
1	Float Collar	13 3/8	12.625	54.50	J-55		ST&C	1.31	608	610
1	Casing Joint	13 3/8	12.625	54.50	J-55		ST&C	42.52	610	652
1	Float Shoe	13 3/8	12.625	54.50	J-55		ST&C	1.76	652	654

Intermediate Casing 1, Planned?-N, 4,526ftKB

Casing Description Intermediate Casing 1	Wellbore Original Hole	Run Date 7/20/2016	Set Depth (MD) (ftKB) 4,526	Stick Up (ftKB) -37.7	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	8.844	40.00	HCK-55		LT&C	0.98	38	39
1	Pup Joint	9 5/8	8.844	40.00	HCK-55		LT&C	4.09	39	43
106	Casing Joint	9 5/8	8.844	40.00	HCK-55		LT&C	4,395.47	43	4,438
1	Float Collar	9 5/8	8.844	40.00	HCK-55		LT&C	1.48	4,438	4,440
2	Casing Joint	9 5/8	8.844	40.00	HCK-55		LT&C	84.63	4,440	4,524
1	Float Shoe	9 5/8	8.844	40.00	HCK-55		LT&C	1.61	4,524	4,526

Production Casing, Planned?-N, 13,847ftKB

Casing Description Production Casing	Wellbore Original Hole	Run Date	Set Depth (MD) (ftKB) 13,847	Stick Up (ftKB) -33.6	Set Tension (kips)
Centralizers 102			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	4.781	20.00	HCP-110		TXP-BTC-S	1.19	34	35
1	Hanger PUP	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	4.39	35	39
202	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	8,392.40	39	8,432
1	Marker Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.85	8,432	8,441
126	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	5,239.18	8,441	13,681
1	RSI Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.53	13,681	13,690
1	RSI	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	6.67	13,690	13,697
1	RSI Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	8.67	13,697	13,706
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	42.42	13,706	13,748
1	LC Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.87	13,748	13,758



Cement Summary

Intermediate Casing Cement

Well Name SALADO DRAW WE 23 FED P5 001H		Lease		Field Name JENNINGS		Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/3/2016				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	Landing Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	1.47	13,758	13,759
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	42.55	13,759	13,802
1	Float Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.42	13,802	13,804
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	40.07	13,804	13,844
1	Float Shoe	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.70	13,844	13,847

Intermediate Casing Cement, Casing, 7/20/2016 20:25

Cementing Start Date 7/20/2016		Cementing End Date 7/20/2016		Wellbore Original Hole	
Evaluation Method Returns to Surface		Cement Evaluation Results 194 bbls of cement to surface.			
Comment					

1, 34.6-4,536.0ftKB

Top Depth (ftKB) 34.6	Bottom Depth (ftKB) 4,536.0	Full Return? N	Vol Cement Ret (bbl) 194.0	Top Plug? Y	Bottom Plug? N
Initial Pump Rate (bbl/min) 4.7	Final Pump Rate (bbl/min) 2.9	Avg Pump Rate (bbl/min) 6.5		Final Pump Pressure (psi) 1,089.0	Plug Bump Pressure (psi) 1,089.0
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)	Class	Volume Pumped (bbl) 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) 8.40	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

Lead

Fluid Type Lead	Fluid Description 50/50 POZ/C	Quantity (sacks) 1,030	Class C	Volume Pumped (bbl) 442.0
Estimated Top (ftKB) 34.5	Estimated Bottom Depth (ftKB) 3,536.0	Percent Excess Pumped (%) 150.0	Yield (ft³/sack) 2.41	Fluid Mix Ratio (gal/sack) 13.86
Free Water (%) 0.00	Density (lb/gal) 11.90	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi) 50.0

Cement Fluid Additives

Add	Type	Conc

Tail

Fluid Type Tail	Fluid Description Class C + 0.25% D800	Quantity (sacks) 460	Class C	Volume Pumped (bbl) 110.0
Estimated Top (ftKB) 3,536.0	Estimated Bottom Depth (ftKB) 4,536.0	Percent Excess Pumped (%) 85.0	Yield (ft³/sack) 1.33	Fluid Mix Ratio (gal/sack) 6.35
Free Water (%) 0.00	Density (lb/gal) 14.80	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi) 50.0

Cement Fluid Additives

Add	Type	Conc

Displacement

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



Cement Summary

Production Casing Cement

Well Name SALADO DRAW WE 23 FED P5 001H		Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/3/2016		Mud Line Elevation (ft)	Water Depth (ft)

Original Hole			
Wellbore Name	Directional Type	Min Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole	Horizontal	8,500.0	359.84
Hole Size (in)	Act Top (ftKB)		Act Btm (ftKB)
17 1/2	112.0		664.0
12 1/4	664.0		4,536.0
8 3/4	4,536.0		13,862.0

Multi-bowl, FMC on 6/14/2016 18:00					
Sub-Type Multi-bowl		Install Date 6/14/2016			
Des	Make	Model	WP (psi)	Service	SN

Surface, Planned?-N, 654ftKB										
Casing Description Surface		Wellbore Original Hole		Run Date 6/14/2016		Set Depth (MD) (ftKB) 654		Stick Up (ftKB) -34.7		Set Tension (kips)
Centralizers 8						Scratchers				
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Wellhead	13 3/8	12.625	54.50	J-55		ST&C	2.86	35	38
1	Pup Joint	13 3/8	12.625	54.50	J-55		ST&C	4.30	38	42
14	Casing Joint	13 3/8	12.625	54.50	J-55		ST&C	566.53	42	608
1	Float Collar	13 3/8	12.625	54.50	J-55		ST&C	1.31	608	610
1	Casing Joint	13 3/8	12.625	54.50	J-55		ST&C	42.52	610	652
1	Float Shoe	13 3/8	12.625	54.50	J-55		ST&C	1.76	652	654

Intermediate Casing 1, Planned?-N, 4,526ftKB										
Casing Description: Intermediate Casing 1		Wellbore Original Hole		Run Date 7/20/2016		Set Depth (MD) (ftKB) 4,526		Stick Up (ftKB) -37.7		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	8.844	40.00	HCK-55		LT&C	0.98	38	39
1	Pup Joint	9 5/8	8.844	40.00	HCK-55		LT&C	4.09	39	43
106	Casing Joint	9 5/8	8.844	40.00	HCK-55		LT&C	4,395.47	43	4,438
1	Float Collar	9 5/8	8.844	40.00	HCK-55		LT&C	1.48	4,438	4,440
2	Casing Joint	9 5/8	8.844	40.00	HCK-55		LT&C	84.63	4,440	4,524
1	Float Shoe	9 5/8	8.844	40.00	HCK-55		LT&C	1.61	4,524	4,526

Production Casing, Planned?-N, 13,847ftKB										
Casing Description Production Casing		Wellbore Original Hole		Run Date		Set Depth (MD) (ftKB) 13,847		Stick Up (ftKB) -33.6		Set Tension (kips)
Centralizers 102						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	4.781	20.00	HCP-110		TXP-BTC-S	1.19	34	35
1	Hanger PUP	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	4.39	35	39
202	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	8,392.40	39	8,432
1	Marker Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.85	8,432	8,441
126	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	5,239.18	8,441	13,681
1	RSI Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.53	13,681	13,690
1	RSI	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	6.67	13,690	13,697
1	RSI Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	6.67	13,697	13,706
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	42.42	13,706	13,748
1	LC Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.87	13,748	13,758



Cement Summary

Production Casing Cement

Well Name SALADO DRAW WE 23 FED P5 001H		Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/3/2016		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	Landing Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	1.47	13,758	13,759
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	42.55	13,759	13,802
1	Float Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.42	13,802	13,804
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	40.07	13,804	13,844
1	Float Shoe	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.70	13,844	13,847

Production Casing Cement, Casing, 7/30/2016 08:00

Cementing Start Date 7/30/2016		Cementing End Date 7/30/2016		Wellbore Original Hole	
Evaluation Method Lift Pressure		Cement Evaluation Results FCP of 2,150 psi. Expected lift pressure of 1,018 psi.			
Comment					

1, 3,680.0-13,847.0ftKB

Top Depth (ftKB) 3,680.0	Bottom Depth (ftKB) 13,847.0	Full Return? N	Vol Cement Ret (bbl) 0.0	Top Plug? Y	Bottom Plug? Y
Initial Pump Rate (bbl/min) 4.1	Final Pump Rate (bbl/min) 4	Avg Pump Rate (bbl/min) 6		Final Pump Pressure (psi) 1,580.0	Plug Bump Pressure (psi) 2,150.0
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)	Class	Volume Pumped (bbl) 30.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%) 0.0	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

Lead

Fluid Type Lead	Fluid Description	Quantity (sacks) 625	Class H	Volume Pumped (bbl) 273.0
Estimated Top (ftKB) 3,680.0	Estimated Bottom Depth (ftKB) 8,516.0	Percent Excess Pumped (%) 50.0	Yield (ft ³ /sack) 2.72	Fluid Mix Ratio (gal/sack) 15.89
Free Water (%)	Density (lb/gal) 11.50	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

Lead

Fluid Type Lead	Fluid Description	Quantity (sacks) 960	Class H	Volume Pumped (bbl) 274.0
Estimated Top (ftKB) 8,516.0	Estimated Bottom Depth (ftKB) 12,847.0	Percent Excess Pumped (%) 35.0	Yield (ft ³ /sack) 1.60	Fluid Mix Ratio (gal/sack) 8.62
Free Water (%)	Density (lb/gal) 12.50	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) 120	Class H	Volume Pumped (bbl) 46.0
Estimated Top (ftKB) 12,847.0	Estimated Bottom Depth (ftKB) 13,847.0	Percent Excess Pumped (%) 0.0	Yield (ft ³ /sack) 2.18	Fluid Mix Ratio (gal/sack) 9.55
Free Water (%)	Density (lb/gal) 15.00	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc



Cement Summary

Production Casing Cement

Well Name SALADO DRAW WE 23 FED P5 001H		Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/3/2016		Mud Line Elevation (ft)	Water Depth (ft)

Displacement				
Fluid Type Displacement	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl) 306.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%) 0.0	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 8.30	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives		
Add	Type	Conc



Directional Survey

Well Name SALADO DRAW WE 23 FED P5 001H		Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/3/2016		Mud Line Elevation (ft)	Water Depth (ft)

Wellbore Name Original Hole	Parent Wellbore Original Hole	Min Kick Off Depth (ftKB) 8,500.0	Vertical Section Direction (°) 359.84
Northing (Y) (ft)	Easting (X) (ft)	UTM Grid Zone	

Date 6/14/2016	Definitive? Y	Description MWD	Planned? N		
MD Tie In (ftKB)	TVD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (ft)	EW Tie 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)	Unuse d data
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Magn MWD		0.00	0.00	0.00	N
176	1.00	38.70	175.99	1.20	0.96	1.20	0.57	Magn MWD		0.57	1.54	21.99	N
269	1.40	34.70	268.97	2.77	2.11	2.76	0.44	Magn MWD		0.43	3.48	-4.30	N
361	0.90	17.70	360.95	4.38	2.97	4.37	0.65	Magn MWD		-0.54	5.29	-18.48	N
453	0.50	314.70	452.95	5.35	2.91	5.34	0.88	Magn MWD		-0.43	6.09	322.83	N
548	0.10	48.70	547.94	5.70	2.68	5.69	0.54	Magn MWD		-0.42	6.29	-	N
639	0.40	29.70	638.94	6.02	2.89	6.02	0.34	Magn MWD		0.33	6.68	-20.88	N
649	0.60	24.70	648.94	6.10	2.93	6.09	2.05	Magn MWD		2.00	6.77	-50.00	N
676	0.30	38.40	675.94	6.29	3.04	6.28	1.17	Magn MWD	Phoenix Directional	-1.11	6.98	50.74	N
828	0.30	1.80	827.94	6.99	3.29	6.99	0.12	Magn MWD	Phoenix Directional	0.00	7.73	-24.08	N
1,040	0.70	320.30	1,039.93	8.55	2.49	8.54	0.24	Magn MWD	Phoenix Directional	0.19	8.90	150.24	N
1,222	3.80	217.00	1,221.80	4.58	-1.86	4.59	2.21	Magn MWD	Phoenix Directional	1.70	4.95	-56.76	N
1,402	6.90	242.20	1,401.02	-5.23	-15.02	-5.18	2.12	Magn MWD	Phoenix Directional	1.72	15.90	14.00	N
1,580	7.70	252.20	1,577.58	-13.86	-35.83	-13.76	0.84	Magn MWD	Phoenix Directional	0.45	38.42	5.62	N
1,758	8.20	252.50	1,753.87	-21.32	-59.29	-21.16	0.28	Magn MWD	Phoenix Directional	0.28	63.01	0.17	N
1,935	8.70	252.60	1,928.95	-29.12	-84.10	-28.89	0.28	Magn MWD	Phoenix Directional	0.28	89.00	0.06	N
2,112	8.60	248.90	2,103.93	-37.89	-109.22	-37.58	0.32	Magn MWD	Phoenix Directional	-0.06	115.61	-2.09	N
2,290	7.40	242.80	2,280.20	-47.92	-131.84	-47.55	0.82	Magn MWD	Phoenix Directional	-0.67	140.27	-3.43	N
2,467	6.30	251.80	2,455.94	-56.16	-151.20	-55.74	0.87	Magn MWD	Phoenix Directional	-0.62	161.29	5.08	N
2,645	6.90	255.90	2,632.76	-61.82	-170.85	-61.34	0.43	Magn MWD	Phoenix Directional	0.34	181.69	2.30	N
2,822	7.70	258.40	2,808.33	-66.79	-192.78	-66.25	0.49	Magn MWD	Phoenix Directional	0.45	204.02	1.41	N
2,999	6.40	252.00	2,983.99	-72.23	-213.77	-71.63	0.86	Magn MWD	Phoenix Directional	-0.73	225.65	-3.62	N
3,177	5.40	247.80	3,161.04	-78.46	-230.97	-77.81	0.61	Magn MWD	Phoenix Directional	-0.56	243.93	-2.36	N
3,355	5.90	259.10	3,338.18	-83.35	-247.70	-82.66	0.68	Magn MWD	Phoenix Directional	0.28	261.35	6.35	N
3,533	5.40	266.80	3,515.32	-85.55	-265.05	-84.81	0.51	Magn MWD	Phoenix Directional	-0.28	278.51	4.33	N
3,711	5.20	264.40	3,692.56	-86.80	-281.44	-86.02	0.17	Magn MWD	Phoenix Directional	-0.11	294.52	-1.35	N
3,888	4.90	263.40	3,868.87	-88.46	-296.93	-87.63	0.18	Magn MWD	Phoenix Directional	-0.17	309.83	-0.56	N



Directional Survey

Well Name SALADO DRAW WE 23 FED P5 001H		Lease		Field Name JENNINGS		Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/3/2016				Mud Line Elevation (ft)	Water Depth (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)	Unuse d data
4,066	3.80	253.30	4,046.36	-91.02	-310.13	-90.16	0.75	Magn MWD	Phoenix Directional	-0.62	323.22	-5.67	N
4,243	3.30	230.60	4,223.03	-95.94	-319.69	-95.05	0.84	Magn MWD	Phoenix Directional	-0.28	333.78	-12.82	N
4,420	3.00	213.70	4,399.76	-103.03	-326.20	-102.12	0.55	Magn MWD	Phoenix Directional	-0.17	342.08	-9.55	N
4,478	2.90	212.60	4,457.69	-105.53	-327.83	-104.61	0.20	Magn MWD	Phoenix Directional	-0.17	344.40	-1.90	N
4,606	2.80	223.00	4,585.53	-110.54	-331.71	-109.62	0.41	Magn MWD	Phoenix Directional	-0.08	349.64	8.13	N
4,783	0.50	175.80	4,762.45	-114.48	-334.60	-113.54	1.41	Magn MWD	Phoenix Directional	-1.30	353.64	-26.67	N
4,961	0.60	119.20	4,940.44	-115.71	-333.73	-114.77	0.30	Magn MWD	Phoenix Directional	0.06	353.22	-31.80	N
5,137	1.20	57.70	5,116.42	-115.17	-331.37	-114.24	0.60	Magn MWD	Phoenix Directional	0.34	350.81	-34.94	N
5,314	1.80	51.50	5,293.36	-112.45	-327.62	-111.53	0.35	Magn MWD	Phoenix Directional	0.34	346.38	-3.50	N
5,492	1.90	48.30	5,471.27	-108.75	-323.23	-107.84	0.08	Magn MWD	Phoenix Directional	0.06	341.04	-1.80	N
5,689	1.60	35.90	5,648.19	-104.79	-319.59	-103.90	0.27	Magn MWD	Phoenix Directional	-0.17	336.33	-7.01	N
5,847	1.90	27.70	5,826.10	-100.17	-316.76	-99.28	0.22	Magn MWD	Phoenix Directional	0.17	332.22	-4.61	N
6,024	1.30	58.10	6,003.04	-96.51	-313.70	-95.63	0.58	Magn MWD	Phoenix Directional	-0.34	328.20	17.18	N
6,201	1.50	66.80	6,179.98	-94.53	-309.86	-93.67	0.16	Magn MWD	Phoenix Directional	0.11	323.96	4.92	N
6,378	0.30	88.90	6,356.96	-93.61	-307.27	-92.75	0.69	Magn MWD	Phoenix Directional	-0.68	321.21	12.49	N
6,555	0.30	200.70	6,533.96	-94.04	-306.97	-93.18	0.28	Magn MWD	Phoenix Directional	0.00	321.05	63.16	N
6,733	0.40	238.60	6,711.95	-94.80	-307.66	-93.94	0.14	Magn MWD	Phoenix Directional	0.06	321.94	21.29	N
6,911	0.30	238.80	6,889.95	-95.36	-308.59	-94.50	0.06	Magn MWD	Phoenix Directional	-0.06	322.99	0.11	N
7,088	0.50	236.20	7,066.95	-96.03	-309.63	-95.17	0.11	Magn MWD	Phoenix Directional	0.11	324.18	-1.47	N
7,265	1.00	213.10	7,243.93	-97.75	-311.12	-96.89	0.32	Magn MWD	Phoenix Directional	0.28	326.11	-13.05	N
7,443	1.00	1.00	7,421.92	-97.50	-311.94	-96.63	1.08	Magn MWD	Phoenix Directional	0.00	326.82	-	N
7,620	0.70	4.90	7,598.90	-94.88	-311.82	-94.01	0.17	Magn MWD	Phoenix Directional	-0.17	325.93	2.20	N
7,797	0.40	11.20	7,775.89	-93.20	-311.61	-92.33	0.17	Magn MWD	Phoenix Directional	-0.17	325.24	3.56	N
7,975	0.20	293.50	7,953.89	-92.46	-311.77	-91.59	0.23	Magn MWD	Phoenix Directional	-0.11	325.19	158.60	N
8,153	0.60	175.60	8,131.89	-93.27	-311.98	-92.40	0.40	Magn MWD	Phoenix Directional	0.22	325.63	-66.24	N
8,330	0.60	183.80	8,308.88	-95.12	-311.97	-94.25	0.05	Magn MWD	Phoenix Directional	0.00	326.15	4.63	N
8,441	0.60	204.60	8,419.87	-96.23	-312.25	-95.35	0.20	Magn MWD	Phoenix Directional	0.00	326.75	18.74	N
8,580	10.95	179.20	8,557.98	-110.13	-312.37	-109.25	7.49	Magn MWD	Baker Hughes	7.46	331.22	-18.27	N
8,627	17.97	177.57	8,603.47	-121.85	-312.00	-120.98	14.96	Magn MWD	Baker Hughes	14.94	334.95	-3.47	N
8,716	31.01	176.66	8,684.28	-158.61	-310.08	-157.75	14.66	Magn MWD	Baker Hughes	14.65	348.29	-1.02	N



Directional Survey

Well Name SALADO DRAW WE 23 FED P5 001H		Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/3/2016		Mud Line Elevation (ft)	Water Depth (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)	Unuse d data
8,804	31.01	176.97	8,759.71	-203.88	-307.56	-203.02	0.18	Magn MWD	Baker Hughes	0.00	369.00	0.35	N
8,893	49.15	176.72	8,827.52	-260.85	-304.39	-260.00	20.38	Magn MWD	Baker Hughes	20.38	400.88	-0.28	N
8,982	54.69	176.27	8,882.39	-330.75	-300.10	-329.91	6.24	Magn MWD	Baker Hughes	6.22	446.61	-0.51	N
9,071	64.42	179.63	8,927.44	-407.33	-297.47	-406.49	11.40	Magn MWD	Baker Hughes	10.93	504.39	3.78	N
9,159	73.71	180.91	8,958.85	-489.42	-297.89	-488.59	10.64	Magn MWD	Baker Hughes	10.56	572.95	1.45	N
9,247	80.85	181.42	8,978.22	-575.19	-299.64	-574.35	8.13	Magn MWD	Baker Hughes	8.11	648.56	0.58	N
9,336	88.46	183.61	8,986.50	-663.65	-303.53	-662.80	8.89	Magn MWD	Baker Hughes	8.55	729.77	2.46	N
9,425	91.54	183.74	8,986.50	-752.45	-309.24	-751.59	3.46	Magn MWD	Baker Hughes	3.46	813.52	0.15	N
9,513	91.11	180.69	8,984.47	-840.35	-312.64	-839.48	3.50	Magn MWD	Baker Hughes	-0.49	896.63	-3.47	N
9,602	91.48	176.77	8,982.46	-929.29	-310.67	-928.42	4.42	Magn MWD	Baker Hughes	0.42	979.85	-4.40	N
9,691	91.26	176.81	8,980.33	-1,018.13	-305.68	-1,017.27	0.25	Magn MWD	Baker Hughes	-0.25	1,063.03	0.04	N
9,780	89.32	176.97	8,979.88	-1,106.99	-300.86	-1,106.15	2.19	Magn MWD	Baker Hughes	-2.18	1,147.14	0.18	N
9,869	90.43	174.42	8,980.07	-1,195.73	-294.18	-1,194.90	3.12	Magn MWD	Baker Hughes	1.25	1,231.39	-2.87	N
9,957	90.55	176.59	8,979.32	-1,283.45	-287.28	-1,282.64	2.47	Magn MWD	Baker Hughes	0.14	1,315.21	2.47	N
10,046	90.15	180.66	8,978.78	-1,372.40	-285.14	-1,371.60	4.59	Magn MWD	Baker Hughes	-0.45	1,401.71	4.57	N
10,135	90.59	182.81	8,978.20	-1,461.36	-287.84	-1,460.55	2.47	Magn MWD	Baker Hughes	0.49	1,489.43	2.42	N
10,223	89.42	183.43	8,978.19	-1,549.22	-292.63	-1,548.40	1.50	Magn MWD	Baker Hughes	-1.33	1,576.62	0.70	N
10,312	90.25	177.99	8,978.45	-1,638.18	-293.73	-1,637.36	6.18	Magn MWD	Baker Hughes	0.93	1,664.31	-6.11	N
10,401	90.15	175.34	8,978.14	-1,727.02	-288.55	-1,726.21	2.98	Magn MWD	Baker Hughes	-0.11	1,750.96	-2.98	N
10,489	91.02	176.95	8,977.24	-1,814.82	-282.64	-1,814.02	2.08	Magn MWD	Baker Hughes	0.99	1,836.69	1.83	N
10,578	91.29	180.28	8,975.45	-1,903.76	-280.49	-1,902.97	3.75	Magn MWD	Baker Hughes	0.30	1,924.31	3.74	N
10,666	90.65	177.77	8,973.96	-1,991.73	-278.99	-1,990.94	2.94	Magn MWD	Baker Hughes	-0.73	2,011.17	-2.85	N
10,755	90.99	177.14	8,972.68	-2,080.63	-275.04	-2,079.85	0.80	Magn MWD	Baker Hughes	0.38	2,098.73	-0.71	N
10,844	91.36	182.28	8,970.86	-2,169.58	-274.59	-2,168.80	5.79	Magn MWD	Baker Hughes	0.42	2,186.89	5.78	N
10,933	91.32	182.67	8,968.77	-2,258.47	-278.43	-2,257.69	0.44	Magn MWD	Baker Hughes	-0.04	2,275.57	0.44	N
11,022	91.35	182.98	8,966.70	-2,347.34	-282.82	-2,346.54	0.35	Magn MWD	Baker Hughes	0.03	2,364.32	0.35	N
11,111	91.36	182.26	8,964.60	-2,436.22	-286.88	-2,435.41	0.81	Magn MWD	Baker Hughes	0.01	2,453.05	-0.81	N
11,199	91.42	181.09	8,962.46	-2,524.16	-289.45	-2,523.34	1.33	Magn MWD	Baker Hughes	0.07	2,540.70	-1.33	N
11,288	90.40	180.24	8,961.05	-2,613.14	-290.49	-2,612.32	1.49	Magn MWD	Baker Hughes	-1.15	2,629.23	-0.96	N
11,376	90.25	180.38	8,960.55	-2,701.13	-290.96	-2,700.31	0.23	Magn MWD	Baker Hughes	-0.17	2,716.76	0.16	N



Directional Survey

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Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/3/2016				Mud Line Elevation (ft)	Water Depth (ft)

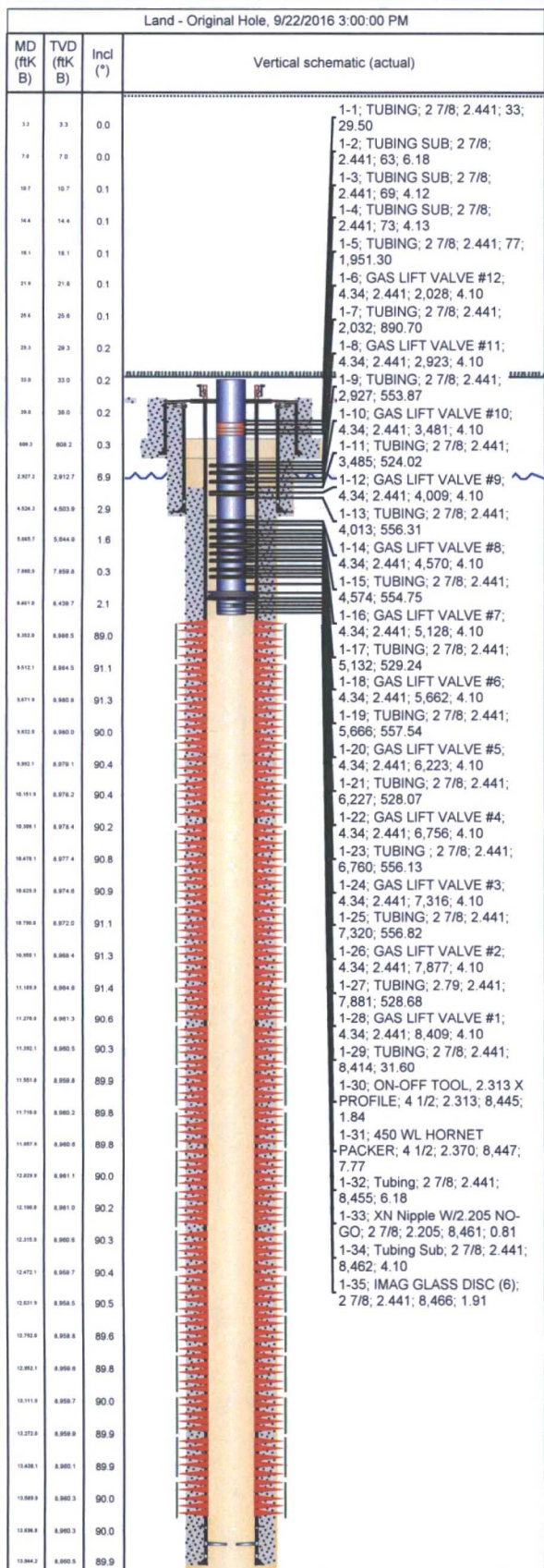
Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unuse d data
11,465	90.40	179.50	8,960.04	-2,790.13	-290.87	-2,789.31	1.00	Magn MWD	Baker Hughes	0.17	2,805.25	-0.99	N
11,553	89.88	179.59	8,959.83	-2,878.13	-290.17	-2,877.31	0.60	Magn MWD	Baker Hughes	-0.59	2,892.72	0.10	N
11,642	89.88	179.21	8,960.02	-2,967.12	-289.24	-2,966.30	0.43	Magn MWD	Baker Hughes	0.00	2,981.19	-0.43	N
11,731	89.82	179.29	8,960.25	-3,056.12	-288.07	-3,055.30	0.11	Magn MWD	Baker Hughes	-0.07	3,069.66	0.09	N
11,819	89.91	179.09	8,960.46	-3,144.11	-286.83	-3,143.29	0.25	Magn MWD	Baker Hughes	0.10	3,157.16	-0.23	N
11,908	89.60	178.20	8,960.84	-3,233.08	-284.73	-3,232.27	1.06	Magn MWD	Baker Hughes	-0.35	3,245.59	-1.00	N
11,997	90.06	177.60	8,961.10	-3,322.02	-281.46	-3,321.22	0.85	Magn MWD	Baker Hughes	0.52	3,333.92	-0.67	N
12,085	89.91	178.32	8,961.12	-3,409.96	-278.33	-3,409.17	0.84	Magn MWD	Baker Hughes	-0.17	3,421.30	0.82	N
12,174	90.22	178.42	8,961.02	-3,498.93	-275.80	-3,498.14	0.37	Magn MWD	Baker Hughes	0.35	3,509.78	0.11	N
12,263	90.03	177.68	8,960.83	-3,587.87	-272.77	-3,587.10	0.86	Magn MWD	Baker Hughes	-0.21	3,598.23	-0.83	N
12,352	90.40	177.61	8,960.49	-3,676.80	-269.11	-3,676.03	0.42	Magn MWD	Baker Hughes	0.42	3,686.63	-0.08	N
12,440	90.37	179.42	8,959.90	-3,764.76	-266.83	-3,764.00	2.06	Magn MWD	Baker Hughes	-0.03	3,774.21	2.06	N
12,529	90.40	177.92	8,959.31	-3,853.73	-264.77	-3,852.98	1.69	Magn MWD	Baker Hughes	0.03	3,862.82	-1.69	N
12,617	90.65	178.23	8,958.50	-3,941.68	-261.81	-3,940.93	0.45	Magn MWD	Baker Hughes	0.28	3,950.37	0.35	N
12,705	89.69	181.08	8,958.24	-4,029.67	-261.28	-4,028.92	3.42	Magn MWD	Baker Hughes	-1.09	4,038.13	3.24	N
12,793	89.60	183.24	8,958.78	-4,117.60	-264.60	-4,116.84	2.46	Magn MWD	Baker Hughes	-0.10	4,126.09	2.45	N
12,882	89.69	182.71	8,959.33	-4,206.48	-269.22	-4,205.71	0.60	Magn MWD	Baker Hughes	0.10	4,215.08	-0.60	N
12,971	89.88	181.69	8,959.67	-4,295.41	-272.64	-4,294.63	1.17	Magn MWD	Baker Hughes	0.21	4,304.05	-1.15	N
13,059	90.09	182.91	8,959.69	-4,383.34	-276.17	-4,382.55	1.41	Magn MWD	Baker Hughes	0.24	4,392.03	1.39	N
13,148	89.88	183.98	8,959.71	-4,472.17	-281.51	-4,471.37	1.23	Magn MWD	Baker Hughes	-0.24	4,481.03	1.20	N
13,237	89.91	182.64	8,959.88	-4,561.02	-286.65	-4,560.21	1.51	Magn MWD	Baker Hughes	0.03	4,570.02	-1.51	N
13,325	89.94	177.50	8,959.99	-4,648.99	-286.76	-4,648.18	5.84	Magn MWD	Baker Hughes	0.03	4,657.83	-5.84	N
13,414	89.91	175.38	8,960.11	-4,737.82	-281.23	-4,737.01	2.38	Magn MWD	Baker Hughes	-0.03	4,746.16	-2.38	N
13,502	89.88	176.81	8,960.27	-4,825.61	-275.24	-4,824.82	1.63	Magn MWD	Baker Hughes	-0.03	4,833.45	1.63	N
13,591	90.03	180.04	8,960.34	-4,914.57	-272.80	-4,913.78	3.63	Magn MWD	Baker Hughes	0.17	4,922.13	3.63	N
13,680	90.03	182.95	8,960.29	-5,003.53	-275.12	-5,002.74	3.27	Magn MWD	Baker Hughes	0.00	5,011.08	3.27	N
13,768	89.91	185.63	8,960.34	-5,091.27	-281.70	-5,090.46	3.05	Magn MWD	Baker Hughes	-0.14	5,099.06	3.05	N
13,837	89.91	185.23	8,960.45	-5,159.96	-288.23	-5,159.14	0.58	Magn MWD	Baker Hughes	0.00	5,168.00	-0.58	N
13,862	89.91	185.23	8,960.49	-5,184.86	-290.51	-5,184.03	0.00	Extrap.	Baker Hughes	0.00	5,192.99	0.00	N



Tubing Summary

Well Name SALADO DRAW WE 23 FED P5 001H	Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB Elevation (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/3/2016	Mud Line Elevation (ft)	Water Depth (ft)
Current KB to Ground (ft) 32.60	Current KB to Mud Line (ft)	Current KB to Csg Flange (ft)	Current KB to Tubing Head (ft)	

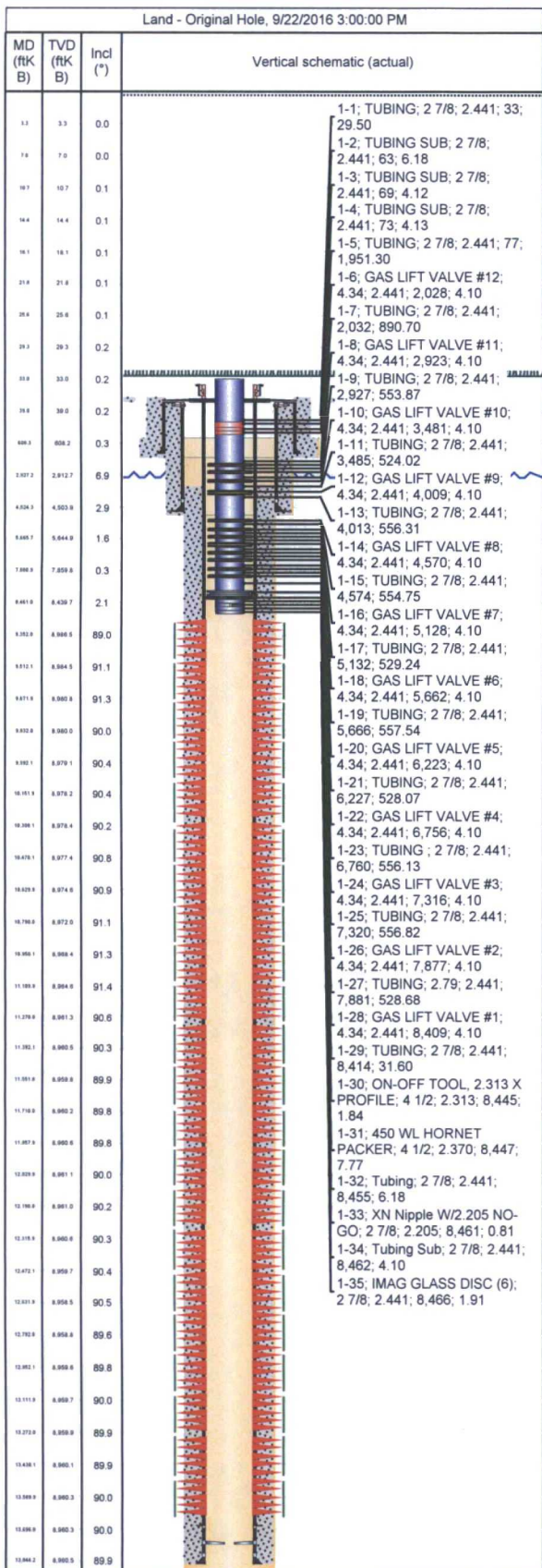


Tubing Strings									
Tubing Description TUBING		Planned Run? N		Set Depth (MD) (ftKB) 8,467.8		Set Depth (TVD) (ftKB) 8,446.6			
Run Date 9/22/2016		Run Job Complete, 8/19/2016 07:00		Pull Date		Pull Job			
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btn (ftKB)
1	TUBING	2 7/8	2.441	6.50	L-80	8RD	29.50	33.0	62.5
1	TUBING SUB	2 7/8	2.441	6.50	L-80	8RD	6.18	62.5	68.7
1	TUBING SUB	2 7/8	2.441	6.50	L-80	8RD	4.12	68.7	72.8
1	TUBING SUB	2 7/8	2.441	6.50	L-80	8RD	4.13	72.8	76.9
63	TUBING	2 7/8	2.441	6.50	L-80	8RD	1,951.30	76.9	2,028.2
1	GAS LIFT VALVE #12	4.335	2.441			8RD	4.10	2,028.2	2,032.3
29	TUBING	2 7/8	2.441	6.50	L-80	8RD	890.70	2,032.3	2,923.0
1	GAS LIFT VALVE #11	4.335	2.441			8RD	4.10	2,923.0	2,927.1
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	553.87	2,927.1	3,481.0
1	GAS LIFT VALVE #10	4.335	2.441			8RD	4.10	3,481.0	3,485.1
17	TUBING	2 7/8	2.441	6.50	L-80	8RD	524.02	3,485.1	4,009.1
1	GAS LIFT VALVE #9	4.335	2.441			8RD	4.10	4,009.1	4,013.2
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	556.31	4,013.2	4,569.5
1	GAS LIFT VALVE #8	4.335	2.441			8RD	4.10	4,569.5	4,573.6
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	554.75	4,573.6	5,128.4
1	GAS LIFT VALVE #7	4.335	2.441			8RD	4.10	5,128.4	5,132.5
17	TUBING	2 7/8	2.441	6.50	L-80	8RD	529.24	5,132.5	5,661.7
1	GAS LIFT VALVE #6	4.335	2.441			8RD	4.10	5,661.7	5,665.8
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	557.54	5,665.8	6,223.4
1	GAS LIFT VALVE #5	4.335	2.441			8RD	4.10	6,223.4	6,227.5
17	TUBING	2 7/8	2.441	6.50	L-80	8RD	528.07	6,227.5	6,755.5
1	GAS LIFT VALVE #4	4.335	2.441			8RD	4.10	6,755.5	6,759.6
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	556.13	6,759.6	7,315.8
1	GAS LIFT VALVE #3	4.335	2.441			8RD	4.10	7,315.8	7,319.9
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	556.82	7,319.9	7,876.7
1	GAS LIFT VALVE #2	4.335	2.441			8TRD	4.10	7,876.7	7,880.8
17	TUBING	2.785	2.441	6.50	L-80	8RD	528.68	7,880.8	8,409.5
1	GAS LIFT VALVE #1	4.335	2.441			8RD	4.10	8,409.5	8,413.6
1	TUBING	2 7/8	2.441	6.50	L-80	8RD	31.60	8,413.6	8,445.2
1	ON-OFF TOOL, 2.313 X PROFILE	4 1/2	2.313			8RD	1.84	8,445.2	8,447.0
1	450 WL HORNET PACKER	4 1/2	2.370			8RD	7.77	8,447.0	8,454.8
1	Tubing	2 7/8	2.441	6.50	L-80	8RD	6.18	8,454.8	8,461.0



Tubing Summary

Well Name SALADO DRAW WE 23 FED P5 001H	Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB Elevation (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/3/2016	Mud Line Elevation (ft)	Water Depth (ft)
Current KB to Ground (ft) 32.60	Current KB to Mud Line (ft)	Current KB to Csg Flange (ft)	Current KB to Tubing Head (ft)	



Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
1	XN Nipple W/2.205 NO-GO	2 7/8	2.205			8RD	0.81	8,461.0	8,461.8
1	Tubing Sub	2 7/8	2.441	6.50	L-80	8RD	4.10	8,461.8	8,465.9
1	IMAG GLASS DISC (6)	2 7/8	2.441			8RD	1.91	8,465.9	8,467.8

Rod Strings			
Rod Description	Planned Run?	Set Depth (ftKB)	Set Depth (TVD) (ftKB)
Run Date	Run Job	Pull Date	Pull Job

Rod Components							
Jts	Item Des	OD (in)	Grade	Model	Len (ft)	Top (ftKB)	Btm (ftKB)