

Phoenix Technology Services
SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER

1514334

OPERATOR

Chevron

WELL NAME Salado Draw 29-26-33 Fed Com 2H

COUNTY & STATE

Lea County, NM

API WELL NUMBER

30-025-42637

PROPOSED DIRECTION

182.15

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
0 ft	.00 ft	.0 ft	.0 ft	.00 ft	.00 ft	Surface

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
14-Nov-15	185 ft	0.30	262.00

SURVEY INSTRUMENT
TYPE

Phoenix MWD

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
8-Jan-16	16,485 ft	90.2	180

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

PROJECTED	PROJECTED		
TD SURVEY	TD SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
8-Jan-16	16,535 ft	90.2	180

Robert Brewer

PRINT YOUR NAME ABOVE

Robert Brewer

SIGN YOUR NAME ABOVE

1/8/2016

TODAY'S DATE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	6.63
DECLINATION OR GRID	GRID

MWD SUPERVISOR 1

Robert Brewer

DIRECTIONAL DRILLER 1

Casey Tubbe

MWD SUPERVISOR 2

Lance Mosby

DIRECTIONAL DRILLER 2

Justin Jackson

12329 Cutten Road

Houston, Texas 77066

(713)337-0609 (Voice), (713)337-0599 (Fax)



Chevron

**Lea County, NM (NAD27 NME)
Salado Draw 29 26 33 Fed Com
2H - Slot 2H**

OH / Job 1514334

Survey: Phoenix MWD Surveys

Standard Survey Report

08 January, 2016





Phoenix Technology Services

Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Well 2H - Slot 2H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3242.00usft (Pace X30)
Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	RKB @ 3242.00usft (Pace X30)
Well:	2H	North Reference:	Grid
Wellbore:	OH / Job 1514334	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Pace X30)	Database:	Compass 5000 GCR

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

Site		Salado Draw 29 26 33 Fed Com			
Site Position:		Northing:	372,173.00 usft	Latitude:	32° 1' 15.91374 N
From:	Map	Easting:	727,838.00 usft	Longitude:	103° 35' 53.52012 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.39 °

Well	2H - Slot 2H					
Well Position	+N/-S	0.00 usft	Northing:	372,173.00 usft	Latitude:	32° 1' 15.91205 N
	+E/-W	0.00 usft	Easting:	727,863.00 usft	Longitude:	103° 35' 53.22975 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,215.00 usft

Wellbore	OH / Job 1514334				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	10/7/2015	7.02	59.75	48,070

Design	Surveys (Pace X30)				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	182.15	

Survey Program	Date	1/8/2016			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
185.00	16,535.00	Phoenix MWD Surveys (OH / Job 1514334)	PHX+MWD+HDGM	PHX+OWSG MWD + HDGM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
185.00	0.30	262.00	185.00	-0.07	-0.48	0.09	0.16	0.16	0.00	
First Phoenix Survey										
375.00	0.30	250.60	375.00	-0.30	-1.44	0.36	0.03	0.00	-6.00	
559.00	0.50	241.90	558.99	-0.84	-2.60	0.94	0.11	0.11	-4.73	
728.00	0.50	244.90	727.99	-1.50	-3.92	1.65	0.02	0.00	1.78	
796.00	0.50	238.70	795.98	-1.78	-4.44	1.95	0.08	0.00	-9.12	
962.00	0.40	254.60	961.98	-2.31	-5.62	2.52	0.10	-0.06	9.58	
1,147.00	0.40	255.50	1,146.97	-2.64	-6.87	2.90	0.00	0.00	0.49	
1,328.00	0.40	278.90	1,327.97	-2.70	-8.11	3.01	0.09	0.00	12.93	
1,506.00	0.80	358.40	1,505.96	-1.37	-8.75	1.69	0.46	0.22	44.66	



Phoenix Technology Services

Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Well 2H - Slot 2H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3242.00usft (Pace X30)
Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	RKB @ 3242.00usft (Pace X30)
Well:	2H	North Reference:	Grid
Wellbore:	OH / Job 1514334	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Pace X30)	Database:	Compass 5000 GCR

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,683.00	3.70	359.50	1,682.81	5.58	-8.84	-5.25	1.64	1.64	0.62
1,860.00	1.60	20.80	1,859.61	13.60	-8.01	-13.29	1.29	-1.19	12.03
2,038.00	2.50	7.80	2,037.50	19.77	-6.60	-19.51	0.57	0.51	-7.30
2,215.00	2.40	5.80	2,214.33	27.28	-5.70	-27.05	0.07	-0.06	-1.13
2,392.00	2.50	358.10	2,391.17	34.83	-5.46	-34.60	0.19	0.06	-4.35
2,569.00	2.70	1.30	2,567.99	42.86	-5.49	-42.62	0.14	0.11	1.81
2,746.00	2.80	0.90	2,744.79	51.35	-5.33	-51.11	0.06	0.06	-0.23
2,923.00	3.00	3.40	2,921.56	60.29	-4.98	-60.06	0.13	0.11	1.41
3,101.00	2.30	348.00	3,099.37	68.44	-5.45	-68.18	0.56	-0.39	-8.65
3,278.00	2.40	340.70	3,276.22	75.41	-7.41	-75.08	0.18	0.06	-4.12
3,455.00	2.20	350.10	3,453.08	82.25	-9.22	-81.85	0.24	-0.11	5.31
3,632.00	2.40	9.30	3,629.94	89.26	-9.21	-88.85	0.45	0.11	10.85
3,810.00	2.60	3.20	3,807.77	96.97	-8.38	-96.58	0.19	0.11	-3.43
3,987.00	3.70	316.10	3,984.53	105.09	-12.12	-104.56	1.53	0.62	-26.61
4,164.00	2.70	277.30	4,161.27	109.74	-20.21	-108.90	1.31	-0.56	-21.92
4,341.00	2.30	264.10	4,338.10	109.90	-27.88	-108.78	0.39	-0.23	-7.46
4,519.00	2.20	257.00	4,515.97	108.77	-34.76	-107.38	0.17	-0.06	-3.99
4,696.00	2.30	253.90	4,692.83	107.02	-41.49	-105.38	0.09	0.06	-1.75
4,752.00	2.20	253.50	4,748.79	106.40	-43.60	-104.69	0.18	-0.18	-0.71
4,883.00	2.10	256.70	4,879.69	105.13	-48.34	-103.24	0.12	-0.08	2.44
5,060.00	2.90	264.00	5,056.52	103.92	-55.95	-101.75	0.49	0.45	4.12
5,237.00	4.60	267.70	5,233.14	103.17	-67.50	-100.56	0.97	0.96	2.09
5,414.00	4.40	263.90	5,409.59	102.16	-81.34	-99.03	0.20	-0.11	-2.15
5,592.00	4.00	250.60	5,587.12	99.37	-93.99	-95.77	0.59	-0.22	-7.47
5,769.00	3.50	249.80	5,763.74	95.46	-104.88	-91.45	0.28	-0.28	-0.45
5,946.00	4.10	258.10	5,940.35	92.29	-116.14	-87.86	0.46	0.34	4.69
6,123.00	4.40	262.80	6,116.87	90.13	-129.07	-85.22	0.26	0.17	2.66
6,301.00	4.20	262.70	6,294.36	88.45	-142.31	-83.04	0.11	-0.11	-0.06
6,478.00	4.10	260.00	6,470.90	86.52	-154.97	-80.65	0.12	-0.06	-1.53
6,655.00	3.90	259.00	6,647.47	84.28	-167.11	-77.94	0.12	-0.11	-0.56
6,832.00	3.50	257.60	6,824.10	81.97	-178.30	-75.22	0.23	-0.23	-0.79
7,009.00	3.90	263.30	7,000.73	80.10	-189.55	-72.93	0.31	0.23	3.22
7,186.00	4.40	259.80	7,177.27	78.20	-202.21	-70.56	0.32	0.28	-1.98
7,363.00	4.10	274.50	7,353.78	77.49	-215.20	-69.36	0.64	-0.17	8.31
7,541.00	4.20	269.90	7,531.32	77.98	-228.06	-69.37	0.20	0.06	-2.58
7,718.00	4.00	264.80	7,707.87	77.41	-240.69	-68.32	0.23	-0.11	-2.88
7,895.00	4.10	277.70	7,884.43	77.70	-253.11	-68.15	0.52	0.06	7.29
8,073.00	3.70	276.80	8,062.02	79.23	-265.12	-69.23	0.23	-0.22	-0.51
8,250.00	4.20	270.40	8,238.60	79.95	-277.27	-69.49	0.38	0.28	-3.62
8,427.00	3.90	265.10	8,415.15	79.48	-289.75	-68.55	0.27	-0.17	-2.99
8,605.00	3.30	261.70	8,592.80	78.23	-300.85	-66.88	0.36	-0.34	-1.91
8,640.00	3.10	261.90	8,627.75	77.95	-302.79	-66.53	0.57	-0.57	0.57
8,670.00	3.00	259.20	8,657.70	77.69	-304.36	-66.21	0.58	-0.33	-9.00



Phoenix Technology Services

Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Well 2H - Slot 2H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3242.00usft (Pace X30)
Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	RKB @ 3242.00usft (Pace X30)
Well:	2H	North Reference:	Grid
Wellbore:	OH / Job 1514334	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Pace X30)	Database:	Compass 5000 GCR

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,715.00	4.60	259.50	8,702.60	77.14	-307.29	-65.55	3.56	3.56	0.67
8,759.00	8.90	234.60	8,746.30	74.84	-311.81	-63.09	11.60	9.77	-56.59
8,804.00	17.00	224.10	8,790.12	68.09	-319.23	-56.06	18.67	18.00	-23.33
8,848.00	23.20	216.20	8,831.43	56.46	-328.84	-44.08	15.35	14.09	-17.95
8,892.00	27.90	202.40	8,871.15	39.93	-337.89	-27.22	17.17	10.68	-31.36
8,937.00	31.60	191.40	8,910.24	18.61	-344.24	-5.68	14.62	8.22	-24.44
8,982.00	33.60	181.70	8,948.18	-5.41	-346.95	18.42	12.42	4.44	-21.56
9,026.00	37.60	176.40	8,983.96	-30.99	-346.46	43.97	11.47	9.09	-12.05
9,071.00	43.00	175.20	9,018.26	-60.00	-344.32	72.88	12.12	12.00	-2.67
9,115.00	49.30	175.20	9,048.73	-91.61	-341.66	104.37	14.32	14.32	0.00
9,159.00	56.40	177.10	9,075.29	-126.58	-339.34	139.22	16.50	16.14	4.32
9,204.00	62.40	179.20	9,098.18	-165.27	-338.11	177.84	13.92	13.33	4.67
9,248.00	66.50	180.30	9,117.16	-204.96	-337.94	217.50	9.59	9.32	2.50
9,301.00	73.40	180.30	9,135.32	-254.71	-338.20	267.23	13.02	13.02	0.00
9,333.00	76.20	180.10	9,143.71	-285.59	-338.31	298.09	8.77	8.75	-0.63
9,364.00	80.40	180.60	9,149.99	-315.94	-338.50	328.42	13.64	13.55	1.61
9,396.00	82.90	181.50	9,154.64	-347.59	-339.08	360.07	8.29	7.81	2.81
9,427.00	85.50	182.10	9,157.77	-378.41	-340.05	390.91	8.61	8.39	1.94
9,522.00	88.30	182.10	9,162.91	-473.20	-343.52	485.76	2.95	2.95	0.00
9,616.00	88.90	182.20	9,165.20	-567.11	-347.05	579.73	0.65	0.64	0.11
9,711.00	89.00	180.80	9,166.95	-662.06	-349.53	674.71	1.48	0.11	-1.47
9,805.00	88.00	179.90	9,169.41	-756.02	-350.11	768.63	1.43	-1.06	-0.96
9,899.00	87.30	180.30	9,173.26	-849.94	-350.27	862.49	0.86	-0.74	0.43
9,994.00	89.20	181.30	9,176.16	-944.88	-351.60	957.41	2.26	2.00	1.05
10,088.00	90.50	180.00	9,176.41	-1,038.87	-352.66	1,051.38	1.96	1.38	-1.38
10,183.00	92.00	179.50	9,174.34	-1,133.84	-352.25	1,146.27	1.66	1.58	-0.53
10,277.00	92.20	178.70	9,170.89	-1,227.77	-350.77	1,240.07	0.88	0.21	-0.85
10,372.00	93.10	178.40	9,166.50	-1,322.64	-348.37	1,334.78	1.00	0.95	-0.32
10,466.00	90.00	178.20	9,163.96	-1,416.55	-345.59	1,428.52	3.30	-3.30	-0.21
10,561.00	90.30	177.90	9,163.71	-1,511.49	-342.35	1,523.28	0.45	0.32	-0.32
10,655.00	90.30	177.60	9,163.22	-1,605.42	-338.66	1,617.00	0.32	0.00	-0.32
10,750.00	90.40	178.50	9,162.63	-1,700.36	-335.43	1,711.75	0.95	0.11	0.95
10,845.00	91.30	178.60	9,161.23	-1,795.32	-333.03	1,806.55	0.95	0.95	0.11
10,939.00	91.09	179.74	9,159.27	-1,889.29	-331.67	1,900.40	1.23	-0.22	1.21
11,034.00	91.51	180.43	9,157.11	-1,984.26	-331.81	1,995.32	0.85	0.44	0.73
11,128.00	87.76	178.74	9,157.71	-2,078.24	-331.13	2,089.20	4.38	-3.99	-1.80
11,223.00	86.28	177.55	9,162.65	-2,173.06	-328.06	2,183.84	2.00	-1.56	-1.25
11,318.00	87.79	178.29	9,167.56	-2,267.86	-324.61	2,278.45	1.77	1.59	0.78
11,412.00	87.82	177.18	9,171.16	-2,361.72	-320.90	2,372.10	1.18	0.03	-1.18
11,507.00	89.05	177.81	9,173.76	-2,456.59	-316.75	2,466.75	1.45	1.29	0.66
11,601.00	89.75	178.15	9,174.74	-2,550.53	-313.44	2,560.49	0.83	0.74	0.36
11,696.00	93.64	181.50	9,171.93	-2,645.45	-313.14	2,655.34	5.40	4.09	3.53
11,790.00	89.05	180.66	9,169.72	-2,739.38	-314.91	2,749.27	4.96	-4.88	-0.89



Phoenix Technology Services

Survey Report



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Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3242.00usft (Pace X30)
Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	RKB @ 3242.00usft (Pace X30)
Well:	2H	North Reference:	Grid
Wellbore:	OH / Job 1514334	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Pace X30)	Database:	Compass 5000 GCR

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
11,885.00	86.64	178.70	9,173.30	-2,834.30	-314.39	2,844.11	3.27	-2.54	-2.06	
11,979.00	87.09	179.55	9,178.44	-2,928.15	-312.95	2,937.83	1.02	0.48	0.90	
12,074.00	84.31	177.02	9,185.56	-3,022.82	-310.12	3,032.33	3.95	-2.93	-2.66	
12,168.00	87.46	179.02	9,192.31	-3,116.51	-306.89	3,125.83	3.97	3.35	2.13	
12,263.00	85.30	177.55	9,198.30	-3,211.27	-304.05	3,220.42	2.75	-2.27	-1.55	
12,357.00	87.03	178.60	9,204.59	-3,305.00	-300.90	3,313.97	2.15	1.84	1.12	
12,452.00	90.70	182.96	9,206.47	-3,399.93	-302.20	3,408.88	6.00	3.86	4.59	
12,546.00	89.75	179.36	9,206.10	-3,493.90	-304.10	3,502.85	3.96	-1.01	-3.83	
12,640.00	91.30	179.10	9,205.24	-3,587.88	-302.84	3,596.72	1.67	1.65	-0.28	
12,735.00	92.60	180.60	9,202.01	-3,682.82	-302.59	3,691.58	2.09	1.37	1.58	
12,829.00	91.00	181.40	9,199.06	-3,776.76	-304.23	3,785.51	1.90	-1.70	0.85	
12,924.00	89.70	180.40	9,198.48	-3,871.74	-305.72	3,880.49	1.73	-1.37	-1.05	
13,018.00	89.80	180.10	9,198.89	-3,965.74	-306.13	3,974.43	0.34	0.11	-0.32	
13,112.00	89.40	178.50	9,199.54	-4,059.73	-304.98	4,068.31	1.75	-0.43	-1.70	
13,207.00	88.30	178.60	9,201.45	-4,154.68	-302.58	4,163.10	1.16	-1.16	0.11	
13,301.00	90.40	179.10	9,202.52	-4,248.64	-300.69	4,256.94	2.30	2.23	0.53	
13,396.00	93.30	181.50	9,199.45	-4,343.58	-301.19	4,351.82	3.96	3.05	2.53	
13,491.00	92.00	179.40	9,195.06	-4,438.46	-301.93	4,446.67	2.60	-1.37	-2.21	
13,585.00	88.60	178.30	9,194.57	-4,532.43	-300.04	4,540.50	3.80	-3.62	-1.17	
13,680.00	89.70	179.30	9,195.97	-4,627.40	-298.05	4,635.32	1.56	1.16	1.05	
13,774.00	90.00	179.30	9,196.22	-4,721.39	-296.91	4,729.20	0.32	0.32	0.00	
13,868.00	88.10	178.20	9,197.78	-4,815.35	-294.86	4,823.02	2.34	-2.02	-1.17	
13,963.00	94.90	180.10	9,195.29	-4,910.24	-293.45	4,917.80	7.43	7.16	2.00	
14,058.00	94.80	181.50	9,187.26	-5,004.89	-294.77	5,012.43	1.47	-0.11	1.47	
14,152.00	88.50	181.00	9,184.56	-5,098.78	-296.82	5,106.33	6.72	-6.70	-0.53	
14,247.00	87.80	180.60	9,187.62	-5,193.72	-298.14	5,201.25	0.85	-0.74	-0.42	
14,341.00	87.40	179.90	9,191.56	-5,287.64	-298.55	5,295.12	0.86	-0.43	-0.74	
14,436.00	89.40	180.50	9,194.21	-5,382.60	-298.88	5,390.02	2.20	2.11	0.63	
14,531.00	90.60	179.90	9,194.21	-5,477.59	-299.21	5,484.96	1.41	1.26	-0.63	
14,625.00	90.70	180.60	9,193.14	-5,571.59	-299.62	5,578.91	0.75	0.11	0.74	
14,720.00	87.10	179.40	9,194.97	-5,666.55	-299.63	5,673.80	3.99	-3.79	-1.26	
14,815.00	88.70	181.70	9,198.45	-5,761.47	-300.54	5,768.69	2.95	1.68	2.42	
14,909.00	89.00	181.10	9,200.34	-5,855.43	-302.83	5,862.67	0.71	0.32	-0.64	
15,004.00	89.90	181.80	9,201.25	-5,950.39	-305.24	5,957.65	1.20	0.95	0.74	
15,098.00	90.00	181.30	9,201.33	-6,044.36	-307.78	6,051.65	0.54	0.11	-0.53	
15,193.00	88.20	181.30	9,202.82	-6,139.32	-309.93	6,146.62	1.89	-1.89	0.00	
15,288.00	90.30	180.30	9,204.07	-6,234.29	-311.26	6,241.58	2.45	2.21	-1.05	
15,382.00	90.20	177.90	9,203.66	-6,328.27	-309.78	6,335.44	2.56	-0.11	-2.55	
15,476.00	90.80	176.50	9,202.84	-6,422.15	-305.19	6,429.08	1.62	0.64	-1.49	
15,571.00	91.20	174.90	9,201.18	-6,516.87	-298.07	6,523.46	1.74	0.42	-1.68	
15,665.00	90.00	175.60	9,200.19	-6,610.54	-290.29	6,616.78	1.48	-1.28	0.74	
15,760.00	92.20	179.00	9,198.37	-6,705.40	-285.81	6,711.40	4.26	2.32	3.58	
15,854.00	90.40	179.20	9,196.24	-6,799.36	-284.34	6,805.24	1.93	-1.91	0.21	
15,949.00	88.40	181.30	9,197.23	-6,894.34	-284.75	6,900.17	3.05	-2.11	2.21	



Phoenix Technology Services
Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Well 2H - Slot 2H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3242.00usft (Pace X30)
Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	RKB @ 3242.00usft (Pace X30)
Well:	2H	North Reference:	Grid
Wellbore:	OH / Job 1514334	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Pace X30)	Database:	Compass 5000 GCR

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,043.00	89.30	181.40	9,199.12	-6,988.29	-286.97	6,994.14	0.96	0.96	0.11
16,138.00	89.60	182.00	9,200.03	-7,083.25	-289.78	7,089.13	0.71	0.32	0.63
16,232.00	90.90	180.60	9,199.62	-7,177.22	-291.92	7,183.12	2.03	1.38	-1.49
16,327.00	88.60	179.80	9,200.03	-7,272.21	-292.25	7,278.05	2.56	-2.42	-0.84
16,421.00	89.30	179.30	9,201.76	-7,366.19	-291.51	7,371.94	0.92	0.74	-0.53
16,485.00	90.20	180.00	9,202.04	-7,430.19	-291.12	7,435.88	1.78	1.41	1.09
Final Phoenix Survey									
16,535.00	90.20	180.00	9,201.86	-7,480.19	-291.12	7,485.84	0.00	0.00	0.00
Projection to TD									

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
185.00	185.00	-0.07	-0.48	First Phoenix Survey
16,485.00	9,202.04	-7,430.19	-291.12	Final Phoenix Survey
16,535.00	9,201.86	-7,480.19	-291.12	Projection to TD

Checked By: _____ Approved By: _____ Date: _____



Casing Summary

Well Name SALADO DRAW 29-26-33 FED COM 002H		Lease Salado Draw 29-26-33 Fed		Field Name WILDCAT (HOBBS)		Business Unit Mid-Continent	
Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation				Mud Line Elevation (ft)	Water Depth (ft)

Surface, Planned?N, 850ftKB

Set Depth (MD) (ftKB) 850		Set Tension (kips)		String Nominal OD (in) 13 3/8		String Min Drift (in) 12.563		Centralizers 10		Scratchers	
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
1	Casing Joint	13 3/8	12.715	48.00	H-40	ST&C	-1	-1	0.00		740.0
1	Landing Joint	13 3/8	12.715	48.00	H-40	ST&C	-1	36	36.69		740.0
1	Wellhead	13 3/8	12.715	48.00	H-40	ST&C	36	41	4.63		740.0
1	Pup Joint	13 3/8	12.715	48.00	H-40	ST&C	41	45	4.11		740.0
1	Casing Joint	13 3/8	12.715	48.00	H-40	ST&C	45	88	42.83		740.0
1	Casing Joint	13 3/8	12.715	48.00	H-40	ST&C	88	122	34.47		740.0
18	Casing Joint	13 3/8	12.715	48.00	H-40	ST&C	122	805	683.11		740.0
1	Float Collar	13 3/8	12.715	48.00	H-40	ST&C	805	807	1.37		740.0
1	Casing Joint	13 3/8	12.715	48.00	H-40	ST&C	807	849	41.95		740.0
1	Float Shoe	13 3/8	12.719	48.00	H-40		849	850	1.48	1,730.0	740.0

Intermediate Casing 1, Planned?N, 4,800ftKB

Set Depth (MD) (ftKB) 4,800		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	Casing Joint	9 5/8	8.844	40.00	HCK-55	LT&C	-4	-4	0.00	3,950.0	4,230.0
1	Landing Jt	9 5/8	8.844	40.00	HCK-55	LT&C	-4	34	38.07	3,950.0	4,230.0
1	Hanger & pup	9 5/8	8.844	40.00	HCK-55	LT&C	34	38	4.00	3,950.0	4,230.0
11	Casing Joint	9 5/8	8.844	40.00	HCK-55	LT&C	38	4,709	4,670.98	3,950.0	4,230.0
1	Float Collar	9 5/8	8.844	40.00	HCK-55	LT&C	4,709	4,710	1.48	3,950.0	4,230.0
2	Casing Joint	9 5/8	8.844	40.00	HCK-55	LT&C	4,710	4,798	88.04	3,950.0	4,230.0
1	Float Shoe	9 5/8	8.844	40.00	HCK-55	LT&C	4,798	4,800	1.62		

Drilling Liner 1, Planned?N, 9,290ftKB

Set Depth (MD) (ftKB) 9,290		Set Tension (kips)		String Nominal OD (in) 7 5/8		String Min Drift (in)		Centralizers 0		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)
37	5" Drill Pipe	5	2.675	19.50	S-135	4-1/2" IF	-4	3,272	3,276.91		5,350.0
10	5" HWDP	5	2.675			4-1/2" IF	3,272	4,164	891.49		5,350.0
1	5" Drill Pipe	5	2.675	19.50	S-135	4-1/2" IF	4,164	4,253	88.62		5,350.0
1	Setting Tool	7 5/8	6.875	29.70	P-110	TSH 513	4,253	4,267	14.66		5,350.0
1	Versa Flex Hanger	7 5/8	6.875	29.70	P-110	TSH 513	4,267	4,298	30.36		5,350.0
10	Casing Joint	7 5/8	6.875	29.70	P-110	TSH 513	4,298	9,192	4,894.25		5,350.0
1	Landing Collar	7 5/8	6.875	29.70	P-110	TSH 513	9,192	9,194	1.97		5,350.0
1	Casing Joint	7 5/8	6.875	29.70	P-110	TSH 513	9,194	9,241	46.88		5,350.0
1	Float Collar	7 5/8	6.875	29.70	P-110	TSH 513	9,241	9,243	1.98		5,350.0
1	Casing Joint	7 5/8	6.875	29.70	P-110	TSH 513	9,243	9,288	45.74		5,350.0
1	Float Shoe	7 5/8	3.626	19.10	Q-125		9,288	9,290	1.61		21,920.0

Production Casing, Planned?N, 16,514ftKB

Set Depth (MD) (ftKB) 16,514		Set Tension (kips)		String Nominal OD (in) 5		String Min Drift (in)		Centralizers		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	4.276	18.00	P-110	CDC	39	39	0.25		13,470.0
1	Pup Jt	5	4.276	18.00	P-110	CDC	39	42	3.21		13,470.0
1	XO	5	4.276	18.00	P-110	CDC	42	44	1.91		13,470.0
36	Casing Joint	5	4.276	18.00	P-110	Tenaris	44	16,336	16,291.84		13,470.0
1	Pup Jt	5	4.276	18.00	P-110	Tenaris	16,336	16,345	9.07		13,470.0
1	RSI Tool	5	4.276	18.00	P-110	Tenaris	16,345	16,351	6.46		13,470.0
1	Pup Jt	5	4.276	18.00	P-110	Tenaris	16,351	16,361	9.72		13,470.0
1	Casing Joint	5	4.276	18.00	P-110	Tenaris	16,361	16,406	44.92		13,470.0
1	Pup Jt	5	4.276	18.00	P-110	Tenaris	16,406	16,415	9.24		13,470.0
1	Landing collar	5	4.276	18.00	P-110	Tenaris	16,415	16,417	1.46		13,470.0
1	Casing Joint	5	4.276	18.00	P-110	Tenaris	16,417	16,462	45.54		13,470.0



Casing Summary

Well Name SALADO DRAW 29-26-33 FED COM 002H		Lease Salado Draw 29-26-33 Fed		Field Name WILDCAT (HOBBS)		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 Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
1	Float collar	5	4.276	18.00	P-110	Tenaris	16,462	16,464	1.52		13,470.0
1	Casing Vib	5	4.276	18.00	P-110	Tenaris	16,464	16,466	2.36		13,470.0
1	Casing Joint	5	4.276	18.00	P-110	Tenaris	16,466	16,512	45.52		13,470.0
1	Float shoe	5	4.276	18.00	P-110	Tenaris	16,512	16,514	2.33		13,470.0



Cement Summary

Production Casing Cement

Well Name SALADO DRAW 29-26-33 FED COM 002H		Lease Salado Draw 29-26-33 Fed	Field Name WILDCAT (HOBBS)	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) 8,759.0	Vertical Section Direction (*) 182.15
Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	
17 1/2	80.0	860.0	
12 1/4	860.0	4,800.0	
8 3/4	4,820.0	9,302.0	
6 3/4	9,302.0	16,535.0	

VG-Horizontal, Vetco Grey on 12/19/2014 03:30

Sub-Type VG-Horizontal			Install Date 12/19/2014		
Des	Make	Model	WP (psi)	Service	SN

Surface, Planned?-N, 850ftKB

Casing Description Surface	Wellbore Original Hole	Run Date 11/14/2015	Set Depth (MD) (ftKB) 850	Stick Up (ftKB) 0.6	Set Tension (kips)
Centralizers 10	Scratchers				

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Casing Joint	13 3/8	12.715	48.00	H-40		ST&C	0.00	-1	-1
1	Landing Joint	13 3/8	12.715	48.00	H-40		ST&C	36.69	-1	36
1	Wellhead	13 3/8	12.715	48.00	H-40		ST&C	4.63	36	41
1	Pup Joint	13 3/8	12.715	48.00	H-40		ST&C	4.11	41	45
1	Casing Joint	13 3/8	12.715	48.00	H-40		ST&C	42.83	45	88
1	Casing Joint	13 3/8	12.715	48.00	H-40		ST&C	34.47	88	122
18	Casing Joint	13 3/8	12.715	48.00	H-40		ST&C	683.11	122	805
1	Float Collar	13 3/8	12.715	48.00	H-40		ST&C	1.37	805	807
1	Casing Joint	13 3/8	12.715	48.00	H-40		ST&C	41.95	807	849
1	Float Shoe	13 3/8	12.719	48.00	H-40			1.48	849	850

Intermediate Casing 1, Planned?-N, 4,800ftKB

Casing Description Intermediate Casing 1	Wellbore Original Hole	Run Date 12/20/2015	Set Depth (MD) (ftKB) 4,800	Stick Up (ftKB) 4.2	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	Casing Joint	9 5/8	8.844	40.00	HCK-55		LT&C	0.00	-4	-4
1	Landing Jt	9 5/8	8.844	40.00	HCK-55		LT&C	38.07	-4	34
1	Hanger & pup	9 5/8	8.844	40.00	HCK-55		LT&C	4.00	34	38
111	Casing Joint	9 5/8	8.844	40.00	HCK-55		LT&C	4,670.98	38	4,709
1	Float Collar	9 5/8	8.844	40.00	HCK-55		LT&C	1.48	4,709	4,710
2	Casing Joint	9 5/8	8.844	40.00	HCK-55		LT&C	88.04	4,710	4,798
1	Float Shoe	9 5/8	8.844	40.00	HCK-55		LT&C	1.62	4,798	4,800

Drilling Liner 1, Planned?-N, 9,290ftKB

Casing Description Drilling Liner 1	Wellbore Original Hole	Run Date 12/27/2015	Set Depth (MD) (ftKB) 9,290	Stick Up (ftKB) 4.5	Set Tension (kips)
Centralizers 0	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)
37	5" Drill Pipe	5	2.675	19.50	S-135		4-1/2" IF	3,276.91	-4	3,272
10	5" HWDP	5	2.675				4-1/2" IF	891.49	3,272	4,164
1	5" Drill Pipe	5	2.675	19.50	S-135		4-1/2" IF	88.62	4,164	4,253
1	Setting Tool	7 5/8	6.875	29.70	P-110		TSH 513	14.66	4,253	4,267
1	Versa Flex Hanger	7 5/8	6.875	29.70	P-110		TSH 513	30.36	4,267	4,298
108	Casing Joint	7 5/8	6.875	29.70	P-110		TSH 513	4,894.25	4,298	9,192
1	Landing Collar	7 5/8	6.875	29.70	P-110		TSH 513	1.97	9,192	9,194
1	Casing Joint	7 5/8	6.875	29.70	P-110		TSH 513	46.88	9,194	9,241
1	Float Collar	7 5/8	6.875	29.70	P-110		TSH 513	1.98	9,241	9,243
1	Casing Joint	7 5/8	6.875	29.70	P-110		TSH 513	45.74	9,243	9,288
1	Float Shoe	7 5/8	3.626	19.10	Q-125			1.61	9,288	9,290



Cement Summary

Production Casing Cement

Well Name SALADO DRAW 29-26-33 FED COM 002H		Lease Salado Draw 29-26-33 Fed	Field Name WILDCAT (HOBBS)	Business Unit Mid-Continent	
Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation		Mud Line Elevation (ft)	Water Depth (ft)

Production Casing, Planned? -N, 16,514ftKB

Casing Description Production Casing	Wellbore Original Hole	Run Date 1/8/2016	Set Depth (MD) (ftKB) 16,514	Slick Up (ftKB) -38.7	Set Tension (kips)					
Centralizers			Scratchers							
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Hanger	5	4.276	18.00	P-110		CDC	0.25	39	39
1	Pup Jt	5	4.276	18.00	P-110		CDC	3.21	39	42
1	XO	5	4.276	18.00	P-110		CDC	1.91	42	44
362	Casing Joint	5	4.276	18.00	P-110		Tenaris	16,291.84	44	16,336
1	Pup Jt	5	4.276	18.00	P-110		Tenaris	9.07	16,336	16,345
1	RSI Tool	5	4.276	18.00	P-110		Tenaris	6.46	16,345	16,351
1	Pup Jt	5	4.276	18.00	P-110		Tenaris	9.72	16,351	16,361
1	Casing Joint	5	4.276	18.00	P-110		Tenaris	44.92	16,361	16,406
1	Pup Jt	5	4.276	18.00	P-110		Tenaris	9.24	16,406	16,415
1	Landing collar	5	4.276	18.00	P-110		Tenaris	1.46	16,415	16,417
1	Casing Joint	5	4.276	18.00	P-110		Tenaris	45.54	16,417	16,462
1	Float collar	5	4.276	18.00	P-110		Tenaris	1.52	16,462	16,464
1	Casing Vib	5	4.276	18.00	P-110		Tenaris	2.36	16,464	16,466
1	Casing Joint	5	4.276	18.00	P-110		Tenaris	45.52	16,466	16,512
1	Float shoe	5	4.276	18.00	P-110		Tenaris	2.33	16,512	16,514

Production Casing Cement, Casing, 1/9/2016 21:00

Cementing Start Date 1/9/2016	Cementing End Date 1/10/2016	Wellbore Original Hole
Evaluation Method Returns to Surface	Cement Evaluation Results Good returns.	
Comment		

1, 32.6-16,535.0ftKB

Top Depth (ftKB) 32.6	Bottom Depth (ftKB) 16,535.0	Full Return? N	Vol Cement Ret (bbl) Y	Top Plug? Y	Bottom Plug? Y
Initial Pump Rate (bbl/min) 4.5	Final Pump Rate (bbl/min) 7.7	Avg Pump Rate (bbl/min) 5.6	Final Pump Pressure (psi) 2,562.0	Plug Bump Pressure (psi) 3,062.0	
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 MPE spacer	Quantity (sacks) 228	Class H	Volume Pumped (bbl) 108.0
Estimated Top (ftKB) 3,513.0	Estimated Bottom Depth (ftKB) 7,462.0	Percent Excess Pumped (%) 35.0	Yield (ft³/sack) 2.65	Fluid Mix Ratio (gal/sack) 15.53
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 Poz:H	Quantity (sacks) 228	Class H	Volume Pumped (bbl) 108.0
Estimated Top (ftKB) 3,513.0	Estimated Bottom Depth (ftKB) 7,462.0	Percent Excess Pumped (%) 35.0	Yield (ft³/sack) 2.65	Fluid Mix Ratio (gal/sack) 15.53
Free Water (%)	Density (lb/gal) 11.50	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

Lead

Fluid Type Lead	Fluid Description TXI	Quantity (sacks) 640	Class	Volume Pumped (bbl) 182.0
Estimated Top (ftKB) 7,462.0	Estimated Bottom Depth (ftKB) 14,744.0	Percent Excess Pumped (%) 35.0	Yield (ft³/sack) 1.60	Fluid Mix Ratio (gal/sack) 8.63
Free Water (%)	Density (lb/gal) 12.50	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 29-26-33 FED COM 002H		Lease Salado Draw 29-26-33 Fed	Field Name WILDCAT (HOBBS)	Business Unit Mid-Continent	
Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation		Mud Line Elevation (ft)	Water Depth (ft)

Tail

Fluid Type Tail	Fluid Description Class H	Quantity (sacks) 121	Class H	Volume Pumped (bbl) 47.0
Estimated Top (ftKB) 14,744.0	Estimated Bottom Depth (ftKB) 16,535.0	Percent Excess Pumped (%) 35.0	Yield (ft ³ /sack) 2.18	Fluid Mix Ratio (gal/sack) 9.54
Free Water (%)	Density (lb/gal) 15.00	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

Displacement

Fluid Type Displacement	Fluid Description 20 bbls Acetic Acid	Quantity (sacks)	Class	Volume Pumped (bbl) 292.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

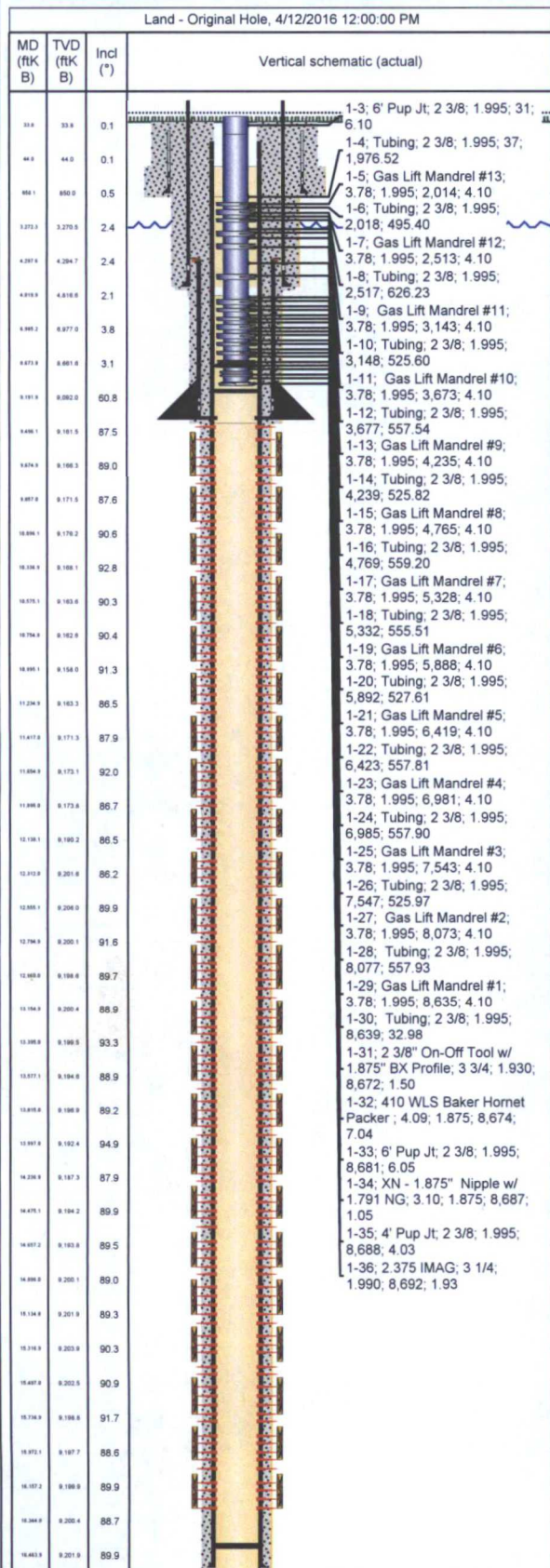
Cement Fluid Additives

Add	Type	Conc



Tubing Summary

Well Name SALADO DRAW 29-26-33 FED COM 002H	Lease Salado Draw 29-26-33 Fed	Field Name WILDCAT (HOBBS)	Business Unit Mid-Continent	
Ground Elevation (ft) 3,215.00	Original RKB Elevation (ft) 3,247.60	Current RKB Elevation 3,247.60, 9/18/2015	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)	

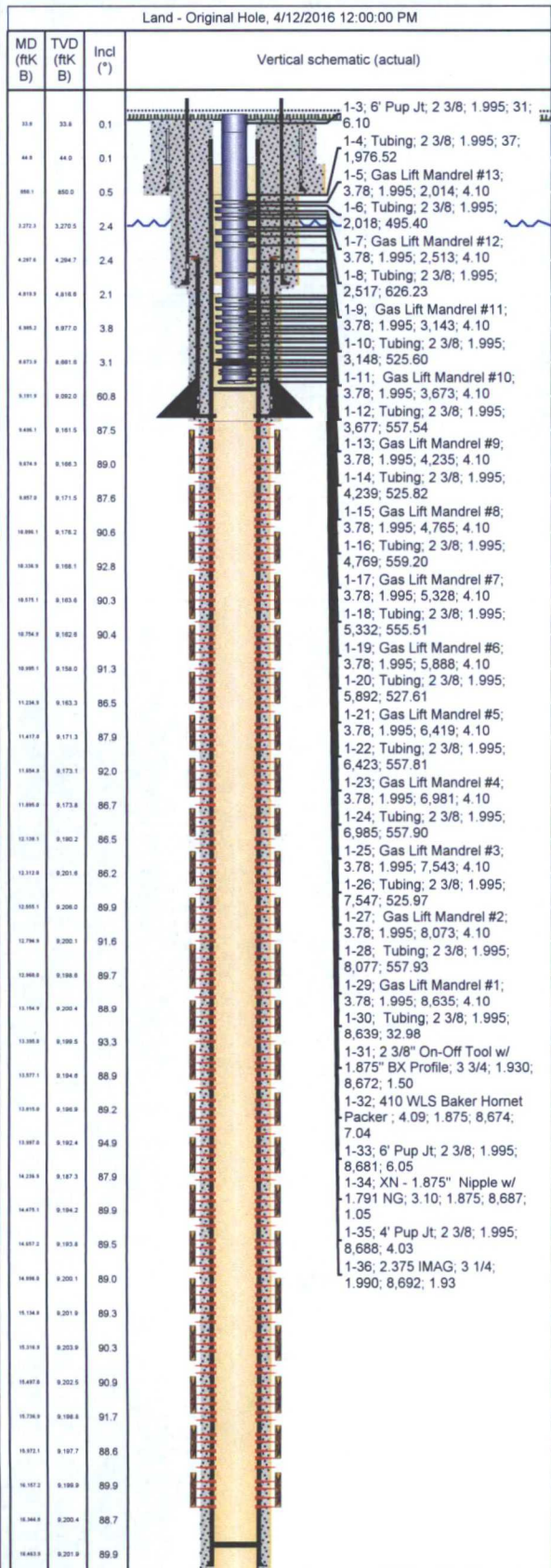


Tubing Strings										
Tubing Description Tubing - Production		Planned Run? N		Set Depth (MD) (ftKB) 8,694.0			Set Depth (TVD) (ftKB) 8,681.7			
Run Date 4/12/2016		Run Job Complete, 1/30/2016 10:00		Pull Date			Pull Job			
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)	
1	Tubing Hanger	2 3/8	2.441				0.50	-2.5	-2.0	
1	Tubing	2 3/8	2.441	4.70	L-80		33.00	-2.0	31.0	
1	6' Pup Jt	2 3/8	1.995	4.70	L-80		6.10	31.0	37.1	
60	Tubing	2 3/8	1.995	4.70	L-80		1,976.52	37.1	2,013.6	
1	Gas Lift Mandrel #13	3.783	1.995		L-80		4.10	2,013.6	2,017.7	
15	Tubing	2 3/8	1.995	4.70	L-80		495.40	2,017.7	2,513.1	
1	Gas Lift Mandrel #12	3.783	1.995		L-80		4.10	2,513.1	2,517.2	
19	Tubing	2 3/8	1.995	6.50	L-80		626.23	2,517.2	3,143.4	
1	Gas Lift Mandrel #11	3.783	1.995		L-80		4.10	3,143.4	3,147.5	
16	Tubing	2 3/8	1.995	6.50	L-80		525.60	3,147.5	3,673.1	
1	Gas Lift Mandrel #10	3.783	1.995		L-80		4.10	3,673.1	3,677.2	
17	Tubing	2 3/8	1.995	6.50	L-80		557.54	3,677.2	4,234.8	
1	Gas Lift Mandrel #9	3.783	1.995		L-80		4.10	4,234.8	4,238.9	
16	Tubing	2 3/8	1.995	6.50	L-80		525.82	4,238.9	4,764.7	
1	Gas Lift Mandrel #8	3.783	1.995		L-80		4.10	4,764.7	4,768.8	
17	Tubing	2 3/8	1.995	6.50	L-80		559.20	4,768.8	5,328.0	
1	Gas Lift Mandrel #7	3.783	1.995		L-80		4.10	5,328.0	5,332.1	
17	Tubing	2 3/8	1.995	6.50	L-80		555.51	5,332.1	5,887.6	
1	Gas Lift Mandrel #6	3.783	1.995		L-80		4.10	5,887.6	5,891.7	
16	Tubing	2 3/8	1.995	6.50	L-80		527.61	5,891.7	6,419.3	
1	Gas Lift Mandrel #5	3.783	1.995		L-80		4.10	6,419.3	6,423.4	
17	Tubing	2 3/8	1.995	6.50	L-80		557.81	6,423.4	6,981.2	
1	Gas Lift Mandrel #4	3.783	1.995		L-80		4.10	6,981.2	6,985.3	
17	Tubing	2 3/8	1.995	6.50	L-80		557.90	6,985.3	7,543.2	
1	Gas Lift Mandrel #3	3.783	1.995		L-80		4.10	7,543.2	7,547.3	
16	Tubing	2 3/8	1.995	6.50	L-80		525.97	7,547.3	8,073.3	
1	Gas Lift Mandrel #2	3.783	1.995		L-80		4.10	8,073.3	8,077.4	
17	Tubing	2 3/8	1.995	6.50	L-80		557.93	8,077.4	8,635.3	
1	Gas Lift Mandrel #1	3.783	1.995		L-80		4.10	8,635.3	8,639.4	
1	Tubing	2 3/8	1.995	6.50	L-80		32.98	8,639.4	8,672.4	
1	2 3/8" On-Off Tool w/ 1.875" BX Profile	3 3/4	1.930				1.50	8,672.4	8,673.9	



Tubing Summary

Well Name SALADO DRAW 29-26-33 FED COM 002H	Lease Salado Draw 29-26-33 Fed	Field Name WILDCAT (HOBBS)	Business Unit Mid-Continent	
Ground Elevation (ft) 3,215.00	Original RKB Elevation (ft) 3,247.60	Current RKB Elevation 3,247.60, 9/18/2015	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	410 WLS Baker Hornet Packer	4.09	1.875				7.04	8,673.9	8,680.9
1	6' Pup Jt	2 3/8	1.995	4.60	L-80		6.05	8,680.9	8,687.0
1	XN - 1.875" Nipple w/ 1.791 NG	3.1	1.875				1.05	8,687.0	8,688.0
1	4' Pup Jt	2 3/8	1.995	4.60	L-80		4.03	8,688.0	8,692.1
1	2.375 IMAG	3 1/4	1.990				1.93	8,692.1	8,694.0

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

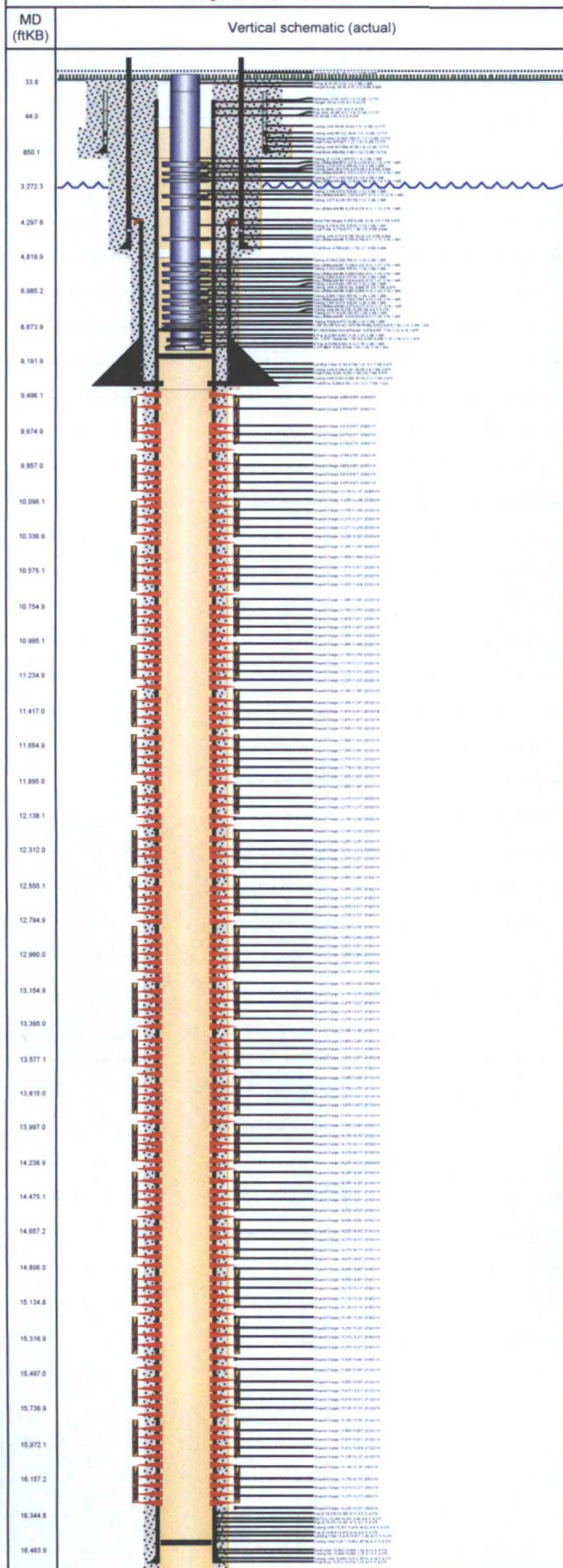
Rod Components							
Jts	Item Des	OD (in)	Grade	Model	Len (ft)	Top (ftKB)	Btm (ftKB)



Wellbore Schematic

Well Name SALADO DRAW 29-26-33 FED COM 002H	Lease Salado Draw 29-26-33 Fed	Field Name WILDCAT (HOBBS)	Business Unit Mid-Continent
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Land - Original Hole, 7/18/2016 11:07:39 AM



Job Details

Job Category	Start Date	Rig/Unit End Date
Completion	1/30/2016	2/27/2016
Completion	2/27/2016	3/1/2016
Completion	3/1/2016	3/8/2016
Completion	4/11/2016	4/13/2016

Casing Strings

Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Set Depth (MD) (ftKB)
Surface	13 3/8	48.00	H-40	ST&C	850
Intermediate Casing 1	9 5/8	40.00	HCK-55	LT&C	4,800
Drilling Liner 1	7 5/8	29.70	P-110	TSH 513	9,290
Production Casing	5	18.00	P-110	Tenaris	16,514

Tubing Strings

Tubing - Production set at 8,694.0ftKB on 4/12/2016 12:00

Tubing Description	Run Date	String Length (ft)	Set Depth (MD) (ftKB)
Tubing - Production	4/12/2016	8,696.52	8,694.0

Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Btm (ftKB)
Tubing Hanger	1	2 3/8			0.50	-2.0
Tubing	1	2 3/8	4.70	L-80	33.00	31.0
6' Pup Jt	1	2 3/8	4.70	L-80	6.10	37.1
Tubing	60	2 3/8	4.70	L-80	1,976.52	2,013.6
Gas Lift Mandrel #13	1	3.783		L-80	4.10	2,017.7
Tubing	15	2 3/8	4.70	L-80	495.40	2,513.1
Gas Lift Mandrel #12	1	3.783		L-80	4.10	2,517.2
Tubing	19	2 3/8	6.50	L-80	626.23	3,143.4
Gas Lift Mandrel #11	1	3.783		L-80	4.10	3,147.5
Tubing	16	2 3/8	6.50	L-80	525.60	3,673.1
Gas Lift Mandrel #10	1	3.783		L-80	4.10	3,677.2
Tubing	17	2 3/8	6.50	L-80	557.54	4,234.8
Gas Lift Mandrel #9	1	3.783		L-80	4.10	4,238.9
Tubing	16	2 3/8	6.50	L-80	525.82	4,764.7
Gas Lift Mandrel #8	1	3.783		L-80	4.10	4,768.8
Tubing	17	2 3/8	6.50	L-80	559.20	5,328.0
Gas Lift Mandrel #7	1	3.783		L-80	4.10	5,332.1
Tubing	17	2 3/8	6.50	L-80	555.51	5,887.6
Gas Lift Mandrel #6	1	3.783		L-80	4.10	5,891.7
Tubing	16	2 3/8	6.50	L-80	527.61	6,419.3
Gas Lift Mandrel #5	1	3.783		L-80	4.10	6,423.4
Tubing	17	2 3/8	6.50	L-80	557.81	6,981.2
Gas Lift Mandrel #4	1	3.783		L-80	4.10	6,985.3
Tubing	17	2 3/8	6.50	L-80	557.90	7,543.2
Gas Lift Mandrel #3	1	3.783		L-80	4.10	7,547.3
Tubing	16	2 3/8	6.50	L-80	525.97	8,073.3
Gas Lift Mandrel #2	1	3.783		L-80	4.10	8,077.4
Tubing	17	2 3/8	6.50	L-80	557.93	8,635.3
Gas Lift Mandrel #1	1	3.783		L-80	4.10	8,639.4
Tubing	1	2 3/8	6.50	L-80	32.98	8,672.4
2 3/8" On-Off Tool w/ 1.875" BX Profile	1	3 3/4			1.50	8,673.9
410 WLS Baker Hornet Packer	1	4.09			7.04	8,680.9
6' Pup Jt	1	2 3/8	4.60	L-80	6.05	8,687.0
XN - 1.875" Nipple w/ 1.791 NG	1	3.1			1.05	8,688.0
4' Pup Jt	1	2 3/8	4.60	L-80	4.03	8,692.1
2.375 IMAG	1	3 1/4			1.93	8,694.0

Perforations

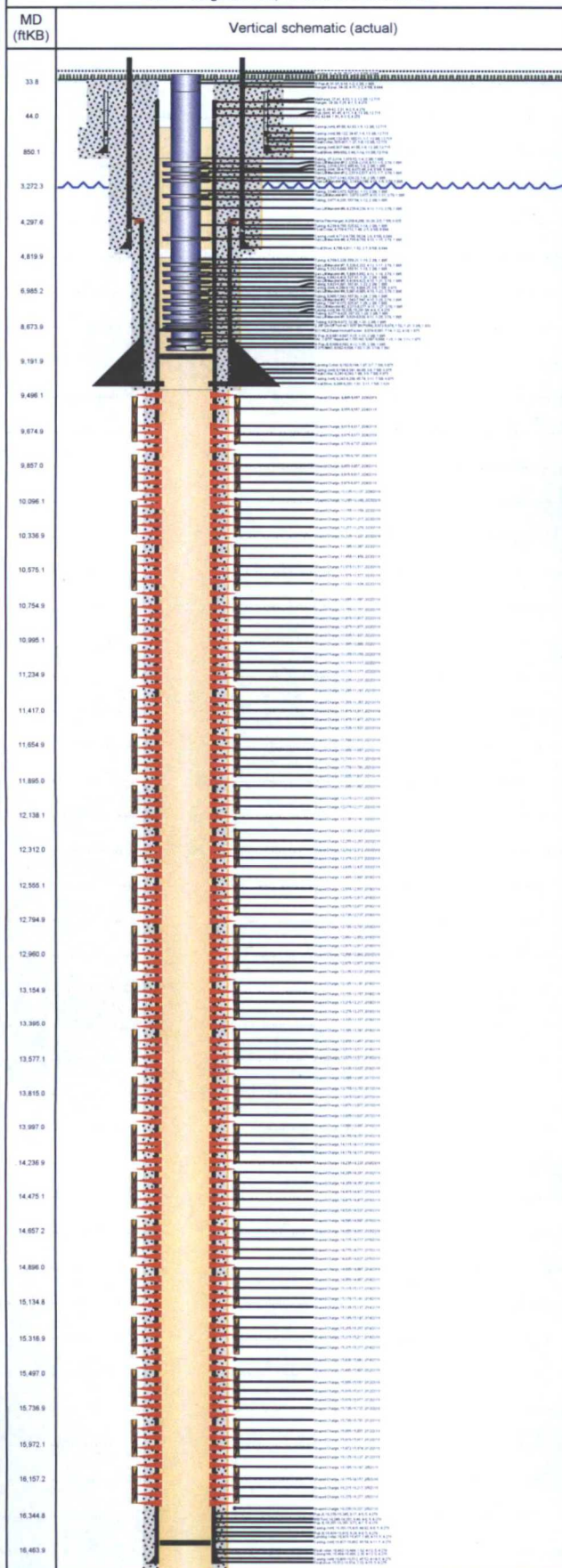
Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Linked Zone
2/24/2016	9,495.0	9,497.0	6.0	12	Avalon, Original Hole
2/24/2016	9,555.0	9,557.0	6.0	12	Avalon, Original Hole
2/24/2016	9,615.0	9,617.0	6.0	12	Avalon, Original Hole
2/24/2016	9,675.0	9,677.0	6.0	12	Avalon, Original Hole



Wellbore Schematic

Well Name SALADO DRAW 29-26-33 FED COM 002H	Lease Salado Draw 29-26-33 Fed	Field Name WILDCAT (HOBBS)	Business Unit Mid-Continent
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Land - Original Hole, 7/18/2016 11:07:39 AM



Perforations

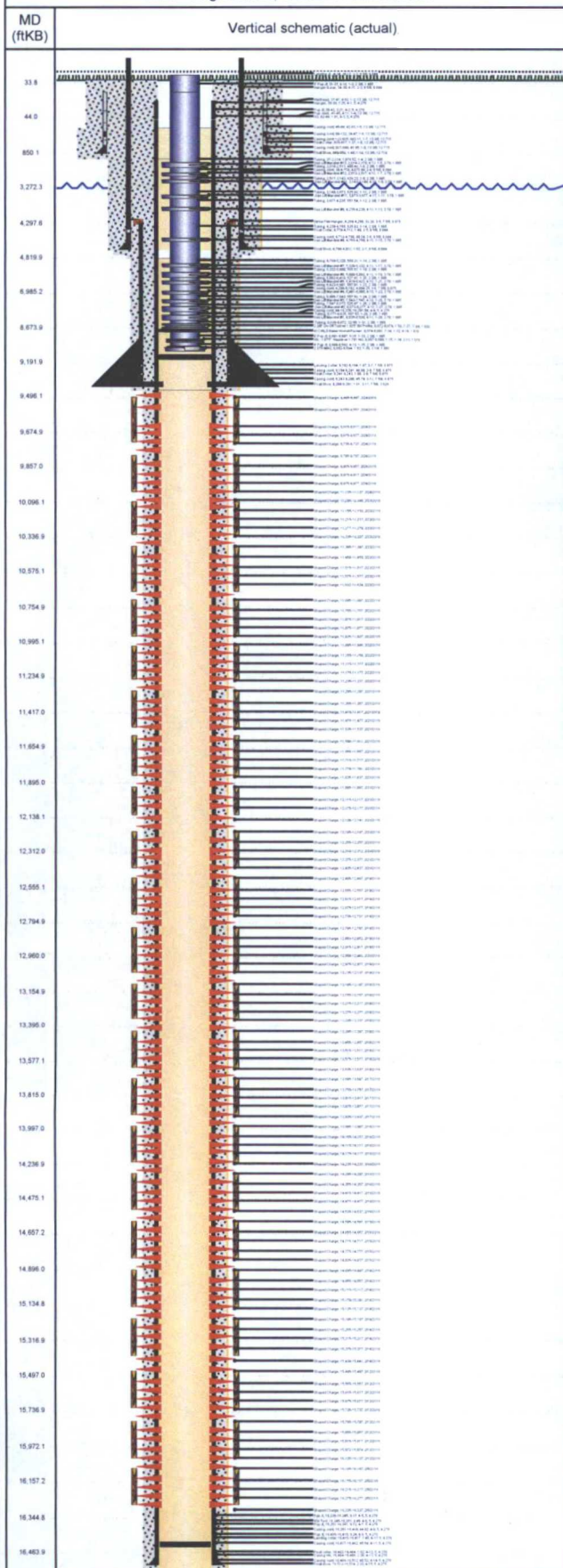
Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Linked Zone
2/24/2016	9,735.0	9,737.0	6.0	12	Avalon, Original Hole
2/24/2016	9,795.0	9,797.0	6.0	12	Avalon, Original Hole
2/24/2016	9,855.0	9,857.0	6.0	12	Avalon, Original Hole
2/24/2016	9,915.0	9,917.0	6.0	12	Avalon, Original Hole
2/24/2016	9,975.0	9,977.0	6.0	12	Avalon, Original Hole
2/24/2016	10,035.0	10,037.0	6.0	12	Avalon, Original Hole
2/23/2016	10,095.0	10,096.0	6.0	12	Avalon, Original Hole
2/23/2016	10,155.0	10,156.0	6.0	12	Avalon, Original Hole
2/23/2016	10,215.0	10,217.0	6.0	12	Avalon, Original Hole
2/23/2016	10,277.0	10,279.0	6.0	12	Avalon, Original Hole
2/23/2016	10,335.0	10,337.0	6.0	12	Avalon, Original Hole
2/23/2016	10,395.0	10,397.0	6.0	12	Avalon, Original Hole
2/23/2016	10,458.0	10,459.0	6.0	12	Avalon, Original Hole
2/23/2016	10,515.0	10,517.0	6.0	12	Avalon, Original Hole
2/23/2016	10,575.0	10,577.0	6.0	12	Avalon, Original Hole
2/23/2016	10,632.0	10,634.0	6.0	12	Avalon, Original Hole
2/22/2016	10,695.0	10,697.0	6.0	12	Avalon, Original Hole
2/22/2016	10,755.0	10,757.0	6.0	12	Avalon, Original Hole
2/22/2016	10,815.0	10,817.0	6.0	12	Avalon, Original Hole
2/22/2016	10,875.0	10,877.0	6.0	12	Avalon, Original Hole
2/22/2016	10,935.0	10,937.0	6.0	12	Avalon, Original Hole
2/22/2016	10,995.0	10,996.0	6.0	12	Avalon, Original Hole
2/22/2016	11,055.0	11,056.0	6.0	12	Avalon, Original Hole
2/22/2016	11,115.0	11,117.0	6.0	12	Avalon, Original Hole
2/22/2016	11,175.0	11,177.0	6.0	12	Avalon, Original Hole
2/22/2016	11,235.0	11,237.0	6.0	12	Avalon, Original Hole
2/21/2016	11,295.0	11,297.0	6.0	12	Avalon, Original Hole
2/21/2016	11,355.0	11,357.0	6.0	12	Avalon, Original Hole
2/21/2016	11,415.0	11,417.0	6.0	12	Avalon, Original Hole
2/21/2016	11,475.0	11,477.0	6.0	12	Avalon, Original Hole
2/21/2016	11,535.0	11,537.0	6.0	12	Avalon, Original Hole
2/21/2016	11,598.0	11,600.0	6.0	12	Avalon, Original Hole
2/21/2016	11,655.0	11,657.0	6.0	12	Avalon, Original Hole
2/21/2016	11,715.0	11,717.0	6.0	12	Avalon, Original Hole
2/21/2016	11,778.0	11,780.0	6.0	12	Avalon, Original Hole
2/21/2016	11,835.0	11,837.0	6.0	12	Avalon, Original Hole
2/20/2016	11,895.0	11,897.0	6.0	12	Avalon, Original Hole
2/20/2016	12,015.0	12,017.0	6.0	12	Avalon, Original Hole
2/20/2016	12,075.0	12,077.0	6.0	12	Avalon, Original Hole
2/20/2016	12,138.0	12,140.0	6.0	12	Avalon, Original Hole
2/20/2016	12,195.0	12,197.0	6.0	12	Avalon, Original Hole
2/20/2016	12,255.0	12,257.0	6.0	12	Avalon, Original Hole
2/20/2016	12,310.0	12,312.0	6.0	12	Avalon, Original Hole
2/20/2016	12,375.0	12,377.0	6.0	12	Avalon, Original Hole
2/20/2016	12,435.0	12,437.0	6.0	12	Avalon, Original Hole
2/19/2016	12,495.0	12,497.0	6.0	12	Avalon, Original Hole
2/19/2016	12,555.0	12,557.0	6.0	12	Avalon, Original Hole
2/19/2016	12,615.0	12,617.0	6.0	12	Avalon, Original Hole
2/19/2016	12,675.0	12,677.0	6.0	12	Avalon, Original Hole
2/19/2016	12,735.0	12,737.0	6.0	12	Avalon, Original Hole
2/19/2016	12,795.0	12,797.0	6.0	12	Avalon, Original Hole
2/19/2016	12,850.0	12,852.0	6.0	12	Avalon, Original Hole
2/19/2016	12,915.0	12,917.0	6.0	12	Avalon, Original Hole
2/20/2016	12,958.0	12,960.0	6.0	12	Avalon, Original Hole
2/19/2016	12,975.0	12,977.0	6.0	12	Avalon, Original Hole
2/19/2016	13,035.0	13,037.0	6.0	12	Avalon, Original Hole
2/18/2016	13,095.0	13,097.0	6.0	12	Avalon, Original Hole
2/18/2016	13,155.0	13,157.0	6.0	12	Avalon, Original Hole



Wellbore Schematic

Well Name SALADO DRAW 29-26-33 FED COM 002H	Lease Salado Draw 29-26-33 Fed	Field Name WILDCAT (HOBBS)	Business Unit Mid-Continent
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Land - Original Hole, 7/18/2016 11:07:40 AM



Perforations

Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Linked Zone
2/18/2016	13,215.0	13,217.0	6.0	12	Avalon, Original Hole
2/18/2016	13,275.0	13,277.0	6.0	12	Avalon, Original Hole
2/18/2016	13,335.0	13,337.0	6.0	12	Avalon, Original Hole
2/18/2016	13,395.0	13,397.0	6.0	12	Avalon, Original Hole
2/18/2016	13,455.0	13,457.0	6.0	12	Avalon, Original Hole
2/18/2016	13,515.0	13,517.0	6.0	12	Avalon, Original Hole
2/18/2016	13,575.0	13,577.0	6.0	12	Avalon, Original Hole
2/18/2016	13,635.0	13,637.0	6.0	12	Avalon, Original Hole
2/17/2016	13,695.0	13,697.0	6.0	12	Avalon, Original Hole
2/17/2016	13,755.0	13,757.0	6.0	12	Avalon, Original Hole
2/17/2016	13,815.0	13,817.0	6.0	12	Avalon, Original Hole
2/17/2016	13,875.0	13,877.0	6.0	12	Avalon, Original Hole
2/17/2016	13,935.0	13,937.0	6.0	12	Avalon, Original Hole
2/16/2016	13,995.0	13,997.0	6.0	12	Avalon, Original Hole
2/16/2016	14,055.0	14,057.0	6.0	12	Avalon, Original Hole
2/16/2016	14,115.0	14,117.0	6.0	12	Avalon, Original Hole
2/16/2016	14,175.0	14,177.0	6.0	12	Avalon, Original Hole
2/16/2016	14,235.0	14,237.0	6.0	12	Avalon, Original Hole
2/16/2016	14,295.0	14,297.0	6.0	12	Avalon, Original Hole
2/16/2016	14,355.0	14,357.0	6.0	12	Avalon, Original Hole
2/16/2016	14,415.0	14,417.0	6.0	12	Avalon, Original Hole
2/16/2016	14,475.0	14,477.0	6.0	12	Avalon, Original Hole
2/16/2016	14,535.0	14,537.0	6.0	12	Avalon, Original Hole
2/15/2016	14,595.0	14,597.0	6.0	12	Avalon, Original Hole
2/15/2016	14,655.0	14,657.0	6.0	12	Avalon, Original Hole
2/15/2016	14,715.0	14,717.0	6.0	12	Avalon, Original Hole
2/15/2016	14,775.0	14,777.0	6.0	12	Avalon, Original Hole
2/15/2016	14,835.0	14,837.0	6.0	12	Avalon, Original Hole
2/14/2016	14,895.0	14,897.0	6.0	12	Avalon, Original Hole
2/14/2016	14,955.0	14,957.0	6.0	12	Avalon, Original Hole
2/14/2016	15,015.0	15,017.0	6.0	12	Avalon, Original Hole
2/14/2016	15,075.0	15,077.0	6.0	12	Avalon, Original Hole
2/14/2016	15,135.0	15,137.0	6.0	12	Avalon, Original Hole
2/14/2016	15,195.0	15,197.0	6.0	12	Avalon, Original Hole
2/14/2016	15,255.0	15,257.0	6.0	12	Avalon, Original Hole
2/14/2016	15,315.0	15,317.0	6.0	12	Avalon, Original Hole
2/14/2016	15,375.0	15,377.0	6.0	12	Avalon, Original Hole
2/14/2016	15,435.0	15,437.0	6.0	12	Avalon, Original Hole
2/12/2016	15,495.0	15,497.0	6.0	12	Avalon, Original Hole
2/12/2016	15,555.0	15,557.0	6.0	12	Avalon, Original Hole
2/12/2016	15,615.0	15,617.0	6.0	12	Avalon, Original Hole
2/12/2016	15,675.0	15,677.0	6.0	12	Avalon, Original Hole
2/12/2016	15,735.0	15,737.0	6.0	12	Avalon, Original Hole
2/12/2016	15,795.0	15,797.0	6.0	12	Avalon, Original Hole
2/12/2016	15,855.0	15,857.0	6.0	12	Avalon, Original Hole
2/12/2016	15,915.0	15,917.0	6.0	12	Avalon, Original Hole
2/12/2016	15,975.0	15,977.0	6.0	12	Avalon, Original Hole
2/12/2016	16,035.0	16,037.0	6.0	12	Avalon, Original Hole
2/5/2016	16,095.0	16,097.0	6.0	12	Avalon, Original Hole
2/5/2016	16,155.0	16,157.0	6.0	12	Avalon, Original Hole
2/5/2016	16,215.0	16,217.0	6.0	12	Avalon, Original Hole
2/5/2016	16,275.0	16,277.0	6.0	12	Avalon, Original Hole
2/5/2016	16,335.0	16,337.0	6.0	12	Avalon, Original Hole

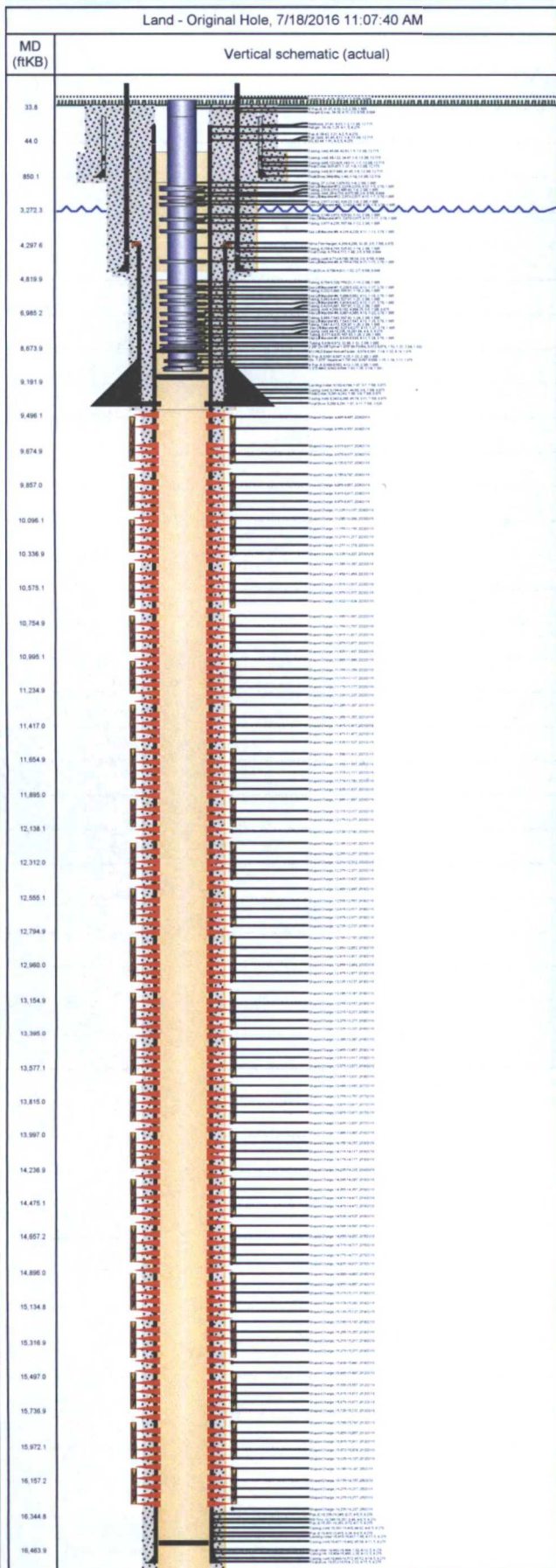
Other Strings

Run Date	Pull Date	Set Depth (ftKB)	Com



Wellbore Schematic

Well Name SALADO DRAW 29-26-33 FED COM 002H	Lease Salado Draw 29-26-33 Fed	Field Name WILDCAT (HOBBS)	Business Unit Mid-Continent
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Other In Hole					
Des	Top (ftKB)	Btm (ftKB)	Run Date	Pull Date	Com
Packer (retrievable)	8,709.0	8,726.0	3/8/2016		Dressed w/ Interventionless MagnumDisk
Composite Frac Plug (drop ball)	10,065.0	10,067.0	2/24/2016	3/1/2016	Stage 22
Composite Frac Plug (drop ball)	10,365.0	10,367.0	2/23/2016	3/1/2016	Stage 21
Composite Frac Plug (drop ball)	10,665.0	10,667.0	2/23/2016	2/29/2016	Stage 20
Composite Frac Plug (drop ball)	10,965.0	10,967.0	2/22/2016	2/29/2016	Stage 19
Composite Frac Plug (drop ball)	11,265.0	11,267.0	2/22/2016	2/29/2016	Stage 18
Composite Frac Plug (drop ball)	11,565.0	11,567.0	2/21/2016	2/29/2016	Stage 17
Composite Frac Plug (drop ball)	11,870.0	11,872.0	2/21/2016	2/29/2016	Stage 16
Composite Frac Plug (drop ball)	12,165.0	12,167.0	2/20/2016	2/29/2016	Stage 15
Composite Frac Plug (drop ball)	12,465.0	12,467.0	2/20/2016	2/29/2016	Stage 14
Composite Frac Plug (drop ball)	12,765.0	12,767.0	2/19/2016	2/29/2016	Stage 13
Composite Frac Plug (drop ball)	13,065.0	13,067.0	2/19/2016	2/29/2016	Stage 12
Composite Frac Plug (drop ball)	13,365.0	13,367.0	2/18/2016	2/29/2016	Stage 11
Composite Frac Plug (drop ball)	13,662.0	13,664.0	2/18/2016	2/29/2016	Stage 10
Composite Frac Plug (drop ball)	13,965.0	13,967.0	2/17/2016	2/29/2016	Stage 9
Composite Frac Plug (drop ball)	14,265.0	14,267.0	2/16/2016	2/29/2016	Stage 8
Composite Frac Plug (drop ball)	14,565.0	14,567.0	2/16/2016	2/29/2016	Stage 7
Composite Frac Plug (drop ball)	14,865.0	14,867.0	2/15/2016	2/29/2016	Stage 6
Composite Frac Plug (drop ball)	15,168.0	15,170.0	2/14/2016	2/29/2016	Stage 5
Composite Frac Plug (drop ball)	15,465.0	15,467.0	2/14/2016	2/29/2016	Stage 4
Composite Frac Plug (drop ball)	15,765.0	15,767.0	2/12/2016	2/29/2016	Stage 3
Composite Frac Plug (drop ball)	16,062.0	16,067.0	2/12/2016	2/29/2016	Stage 2