Phoenix Technology Services
SURVEY DATA CERTIFICATION

PHOENIX TECHNOLOGY SERVICES

PHOENIX JOB NUMBER	1514335	OPERATOR	Chevron
WELL NAME	Salado Draw 29-26-33 Fed Com 3H	COUNTY & STATE	Lea County, NM

API WELL NUMBER	30-025-42638	PROPOSED DIRECTION	176.91

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

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
5-Oct-15	189 ft	0.24	161.98

SURVEY INSTRUMENT TYPE
Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
10-Nov-15	16,431 ft	88.04	179.17

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

PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH
10-Nov-15	16,489 ft	88.04	179.17

GREG HURST

PRINT YOUR NAME ABOVE

Greg Hurst

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	6.63
DECLINATION OR GRID	GRID

11/10/2015

TODAY'S DATE

MWD SUPERVISOR 1	Greg Hurst	DIRECTIONAL DRILLER 1	Keith Scheppler
MWD SUPERVISOR 2	Jeff Broussard	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
3H - Slot 3H

OH / Job 1514335

Survey: Phoenix MWD Surveys

Standard Survey Report

11 November, 2015

PHOENIX
TECHNOLOGY SERVICES

Company:	Chevron	**Local Co-ordinate Reference:**	Well 3H - Slot 3H
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:	3H	**North Reference:**	Grid
Wellbore:	OH / Job 1514335	**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	3H - Slot 3H					
Well Position	**+N/-S**	0.00 usft	**Northing:**	372,173.00 usft	**Latitude:**	32° 1' 15.91037 N
	+E/-W	0.00 usft	**Easting:**	727,888.00 usft	**Longitude:**	103° 35' 52.93938 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	0.00 usft	**Ground Level:**	3,215.00 usft

Wellbore	OH / Job 1514335			
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	176.91	

Survey Program	**Date** 11/11/2015			
From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
189.00	16,489.00	Phoenix MWD Surveys (OH / Job 1514335	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
189.00	0.24	161.98	189.00	-0.38	0.12	0.38	0.13	0.13	0.00
First Phoenix Survey									
375.00	0.23	181.78	375.00	-1.12	0.23	1.13	0.04	-0.01	10.65
560.00	0.23	204.17	560.00	-1.83	0.07	1.83	0.05	0.00	12.10
731.00	0.36	232.48	730.99	-2.47	-0.50	2.44	0.11	0.08	16.56
790.00	0.54	236.45	789.99	-2.74	-0.88	2.69	0.31	0.31	6.73
952.00	0.62	236.94	951.98	-3.64	-2.25	3.51	0.05	0.05	0.30
1,129.00	0.59	241.56	1,128.97	-4.59	-3.85	4.38	0.03	-0.02	2.61
1,306.00	0.50	261.50	1,305.97	-5.14	-5.42	4.84	0.12	-0.05	11.27
1,484.00	0.61	251.17	1,483.96	-5.56	-7.08	5.17	0.08	0.06	-5.80

Company:	Chevron	**Local Co-ordinate Reference:**	Well 3H - Slot 3H
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Site:	Salado Draw 29 26 33 Fed Com	**MD Reference:**	RKB @ 3242.00usft (Pace X30)
Well:	3H	**North Reference:**	Grid
Wellbore:	OH / Job 1514335	**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)
1,661.00	0.71	266.24	1,660.95	-5.94	-9.07	5.44	0.11	0.06	8.51
1,839.00	0.97	266.42	1,838.93	-6.10	-11.67	5.47	0.15	0.15	0.10
2,016.00	1.13	265.10	2,015.90	-6.35	-14.91	5.53	0.09	0.09	-0.75
2,193.00	1.17	224.84	2,192.86	-7.78	-17.92	6.80	0.45	0.02	-22.75
2,370.00	0.08	88.16	2,369.85	-9.05	-19.07	8.01	0.69	-0.62	-77.22
2,547.00	0.31	83.82	2,546.85	-9.00	-18.47	7.99	0.13	0.13	-2.45
2,724.00	0.31	54.16	2,723.85	-8.67	-17.61	7.70	0.09	0.00	-16.76
2,901.00	0.31	10.83	2,900.85	-7.92	-17.13	6.98	0.13	0.00	-24.48
3,079.00	0.12	327.17	3,078.85	-7.29	-17.14	6.35	0.13	-0.11	-24.53
3,256.00	0.33	326.52	3,255.84	-6.71	-17.52	5.75	0.12	0.12	-0.37
3,434.00	0.28	254.89	3,433.84	-6.39	-18.22	5.40	0.20	-0.03	-40.24
3,611.00	0.82	123.68	3,610.84	-7.21	-17.59	6.25	0.58	0.31	-74.13
3,788.00	1.18	94.06	3,787.81	-8.04	-14.72	7.23	0.35	0.20	-16.73
3,966.00	1.57	80.69	3,965.76	-7.77	-10.48	7.20	0.28	0.22	-7.51
4,143.00	2.32	77.61	4,142.66	-6.61	-4.59	6.36	0.43	0.42	-1.74
4,321.00	2.55	79.18	4,320.50	-5.10	2.82	5.24	0.13	0.13	0.88
4,498.00	2.94	87.58	4,497.29	-4.17	11.22	4.77	0.32	0.22	4.75
4,675.00	3.19	92.30	4,674.04	-4.17	20.68	5.28	0.20	0.14	2.67
4,705.00	3.14	92.89	4,703.99	-4.25	22.33	5.45	0.20	-0.17	1.97
4,865.00	2.63	96.61	4,863.79	-4.89	30.36	6.52	0.34	-0.32	2.33
5,042.00	3.58	66.63	5,040.54	-3.17	39.46	5.29	1.04	0.54	-16.94
5,219.00	3.20	61.28	5,217.23	1.40	48.87	1.24	0.28	-0.21	-3.02
5,396.00	3.94	62.67	5,393.89	6.57	58.60	-3.39	0.42	0.42	0.79
5,574.00	5.60	59.48	5,571.26	13.78	71.52	-9.91	0.94	0.93	-1.79
5,751.00	5.44	75.58	5,747.45	20.26	87.08	-15.53	0.88	-0.09	9.10
5,929.00	4.52	74.99	5,924.78	24.18	102.03	-18.64	0.52	-0.52	-0.33
6,106.00	4.26	72.63	6,101.26	27.95	115.04	-21.70	0.18	-0.15	-1.33
6,283.00	5.09	70.75	6,277.67	32.50	128.73	-25.50	0.48	0.47	-1.06
6,460.00	4.69	69.45	6,454.03	37.63	142.92	-29.86	0.23	-0.23	-0.73
6,638.00	4.93	65.79	6,631.40	43.32	156.71	-34.80	0.22	0.13	-2.06
6,815.00	5.70	80.59	6,807.64	47.87	172.32	-38.51	0.88	0.44	8.36
6,992.00	5.31	87.43	6,983.83	49.68	189.17	-39.40	0.43	-0.22	3.86
7,170.00	4.60	84.89	7,161.16	50.68	204.51	-39.57	0.42	-0.40	-1.43
7,347.00	4.01	83.94	7,337.66	51.97	217.73	-40.14	0.34	-0.33	-0.54
7,524.00	3.30	90.22	7,514.30	52.60	228.98	-40.17	0.46	-0.40	3.55
7,702.00	4.07	73.98	7,691.94	54.33	240.18	-41.29	0.72	0.43	-9.12
7,880.00	3.48	68.56	7,869.55	58.05	251.28	-44.40	0.39	-0.33	-3.04
8,057.00	4.19	75.97	8,046.16	61.58	262.55	-47.32	0.49	0.40	4.19
8,235.00	3.41	82.38	8,223.76	63.85	274.11	-48.97	0.50	-0.44	3.60
8,412.00	4.24	77.72	8,400.37	65.94	285.72	-50.43	0.50	0.47	-2.63
8,589.00	4.78	73.55	8,576.82	69.42	299.18	-53.18	0.36	0.31	-2.36
8,649.00	4.44	75.98	8,636.63	70.70	303.83	-54.19	0.65	-0.57	4.05
8,740.00	8.02	135.35	8,727.15	67.03	311.72	-50.11	7.59	3.93	65.24

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Site:	Salado Draw 29 26 33 Fed Com	**MD Reference:**	RKB @ 3242.00usft (Pace X30)
Well:	3H	**North Reference:**	Grid
Wellbore:	OH / Job 1514335	**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)
8,784.00	15.41	154.86	8,770.22	59.54	316.37	-42.38	18.83	16.80	44.34
8,829.00	23.30	163.09	8,812.65	45.59	321.51	-28.17	18.51	17.53	18.29
8,873.00	29.17	165.47	8,852.11	26.86	326.74	-9.19	13.55	13.34	5.41
8,917.00	33.53	168.27	8,889.67	4.57	331.90	13.34	10.45	9.91	6.36
8,962.00	38.02	171.55	8,926.18	-21.32	336.46	39.45	10.85	9.98	7.29
9,006.00	42.44	175.05	8,959.77	-49.53	339.74	67.79	11.28	10.05	7.95
9,050.00	47.59	176.85	8,990.86	-80.56	341.91	98.90	12.06	11.70	4.09
9,095.00	51.42	177.23	9,020.08	-114.73	343.68	133.11	8.54	8.51	0.84
9,139.00	55.45	178.17	9,046.29	-150.03	345.09	168.44	9.32	9.16	2.14
9,184.00	57.86	179.37	9,071.02	-187.61	345.89	206.01	5.80	5.36	2.67
9,228.00	60.36	180.26	9,093.61	-225.37	346.01	243.71	5.94	5.68	2.02
9,272.00	64.29	181.23	9,114.04	-264.32	345.49	282.58	9.14	8.93	2.20
9,316.00	67.56	180.65	9,131.99	-304.49	344.84	322.65	7.53	7.43	-1.32
9,361.00	71.24	179.12	9,147.82	-346.60	344.93	364.71	8.77	8.18	-3.40
9,405.00	75.65	178.19	9,160.35	-388.75	345.92	406.85	10.23	10.02	-2.11
9,449.00	80.64	177.59	9,169.39	-431.77	347.51	449.90	11.42	11.34	-1.36
9,482.00	82.93	177.39	9,174.10	-464.40	348.94	482.55	6.97	6.94	-0.61
9,570.00	87.48	179.30	9,181.46	-552.03	351.47	570.19	5.60	5.17	2.17
9,659.00	91.99	180.40	9,181.87	-641.00	351.70	659.05	5.22	5.07	1.24
9,747.00	92.13	180.09	9,178.71	-728.94	351.32	746.84	0.39	0.16	-0.35
9,837.00	92.10	179.48	9,175.39	-818.88	351.66	836.67	0.68	-0.03	-0.68
9,926.00	91.18	179.55	9,172.84	-907.84	352.42	925.54	1.04	-1.03	0.08
10,014.00	87.98	177.22	9,173.48	-995.79	354.89	1,013.49	4.50	-3.64	-2.65
10,103.00	87.31	176.61	9,177.14	-1,084.58	359.68	1,102.41	1.02	-0.75	-0.69
10,192.00	86.86	177.24	9,181.67	-1,173.34	364.45	1,191.30	0.87	-0.51	0.71
10,281.00	86.33	177.29	9,186.95	-1,262.08	368.69	1,280.14	0.60	-0.60	0.06
10,369.00	87.59	177.42	9,191.62	-1,349.86	372.74	1,368.01	1.44	1.43	0.15
10,458.00	90.14	180.29	9,193.38	-1,438.81	374.52	1,456.92	4.31	2.87	3.22
10,547.00	90.45	180.70	9,192.92	-1,527.80	373.75	1,545.75	0.58	0.35	0.46
10,635.00	90.11	179.59	9,192.49	-1,615.80	373.53	1,633.60	1.32	-0.39	-1.26
10,724.00	90.76	179.85	9,191.82	-1,704.80	373.96	1,722.49	0.79	0.73	0.29
10,813.00	90.73	180.48	9,190.66	-1,793.79	373.71	1,811.34	0.71	-0.03	0.71
10,901.00	91.90	180.85	9,188.64	-1,881.76	372.69	1,899.13	1.39	1.33	0.42
10,990.00	89.91	178.57	9,187.24	-1,970.73	373.14	1,988.00	3.40	-2.24	-2.56
11,079.00	90.45	179.99	9,186.96	-2,059.72	374.25	2,076.92	1.71	0.61	1.60
11,168.00	89.58	179.27	9,186.93	-2,148.72	374.83	2,165.82	1.27	-0.98	-0.81
11,256.00	87.09	177.40	9,189.49	-2,236.64	377.38	2,253.74	3.54	-2.83	-2.13
11,345.00	86.67	176.53	9,194.33	-2,325.38	382.09	2,342.61	1.08	-0.47	-0.98
11,434.00	86.44	176.14	9,199.68	-2,414.04	387.77	2,431.44	0.51	-0.26	-0.44
11,522.00	86.67	177.52	9,204.97	-2,501.74	392.62	2,519.28	1.59	0.26	1.57
11,611.00	86.27	178.81	9,210.45	-2,590.52	395.47	2,608.09	1.51	-0.45	1.45
11,700.00	88.07	180.57	9,214.84	-2,679.41	395.95	2,696.87	2.83	2.02	1.98
11,788.00	90.61	182.28	9,215.86	-2,767.36	393.76	2,784.58	3.48	2.89	1.94

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Wellbore:	OH / Job 1514335	**Survey Calculation Method:**	Minimum Curvature
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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)
11,877.00	90.48	181.08	9,215.01	-2,856.32	391.15	2,873.27	1.36	-0.15	-1.35
11,965.00	91.74	181.25	9,213.31	-2,944.28	389.36	2,961.00	1.44	1.43	0.19
12,054.00	90.03	179.07	9,211.93	-3,033.26	389.12	3,049.84	3.11	-1.92	-2.45
12,143.00	92.04	181.59	9,210.32	-3,122.23	388.60	3,138.66	3.62	2.26	2.83
12,231.00	91.82	180.95	9,207.36	-3,210.16	386.65	3,226.35	0.77	-0.25	-0.73
12,320.00	85.46	175.41	9,209.47	-3,299.01	389.47	3,315.22	9.47	-7.15	-6.22
12,409.00	84.73	175.10	9,217.08	-3,387.38	396.81	3,403.86	0.89	-0.82	-0.35
12,497.00	88.01	178.03	9,222.66	-3,475.03	402.06	3,491.66	4.99	3.73	3.33
12,586.00	87.34	176.97	9,226.27	-3,563.87	405.94	3,580.58	1.41	-0.75	-1.19
12,675.00	88.15	179.72	9,229.77	-3,652.75	408.51	3,669.47	3.22	0.91	3.09
12,764.00	90.09	180.52	9,231.14	-3,741.74	408.32	3,758.32	2.36	2.18	0.90
12,852.00	91.51	180.45	9,229.91	-3,829.72	407.58	3,846.14	1.62	1.61	-0.08
12,941.00	89.89	179.38	9,228.82	-3,918.71	407.71	3,935.00	2.18	-1.82	-1.20
13,030.00	89.72	178.36	9,229.12	-4,007.69	409.47	4,023.95	1.16	-0.19	-1.15
13,118.00	90.95	178.28	9,228.61	-4,095.65	412.05	4,111.92	1.40	1.40	-0.09
13,207.00	89.08	178.95	9,228.58	-4,184.62	414.20	4,200.88	2.23	-2.10	0.75
13,295.00	88.04	178.86	9,230.80	-4,272.58	415.88	4,288.79	1.19	-1.18	-0.10
13,384.00	88.63	182.48	9,233.38	-4,361.52	414.84	4,377.55	4.12	0.66	4.07
13,473.00	87.31	181.84	9,236.54	-4,450.39	411.48	4,466.12	1.65	-1.48	-0.72
13,561.00	88.66	182.65	9,239.63	-4,538.27	408.04	4,553.68	1.79	1.53	0.92
13,650.00	88.77	182.70	9,241.63	-4,627.15	403.89	4,642.20	0.14	0.12	0.06
13,739.00	88.54	183.51	9,243.71	-4,715.99	399.07	4,730.66	0.95	-0.26	0.91
13,827.00	88.85	181.90	9,245.72	-4,803.87	394.92	4,818.18	1.86	0.35	-1.83
13,916.00	90.11	179.52	9,246.53	-4,892.85	393.81	4,906.98	3.03	1.42	-2.67
14,005.00	90.64	178.84	9,245.94	-4,981.84	395.09	4,995.90	0.97	0.60	-0.76
14,093.00	89.75	177.88	9,245.64	-5,069.80	397.61	5,083.87	1.49	-1.01	-1.09
14,182.00	89.55	177.43	9,246.19	-5,158.73	401.25	5,172.86	0.55	-0.22	-0.51
14,271.00	89.33	177.36	9,247.06	-5,247.63	405.29	5,261.85	0.26	-0.25	-0.08
14,359.00	89.72	178.55	9,247.79	-5,335.57	408.43	5,349.83	1.42	0.44	1.35
14,448.00	90.95	180.28	9,247.27	-5,424.56	409.34	5,438.74	2.38	1.38	1.94
14,537.00	91.18	180.22	9,245.61	-5,513.54	408.95	5,527.58	0.27	0.26	-0.07
14,626.00	91.65	179.30	9,243.42	-5,602.51	409.32	5,616.44	1.16	0.53	-1.03
14,715.00	90.19	179.68	9,241.99	-5,691.49	410.12	5,705.33	1.70	-1.64	0.43
14,804.00	88.82	178.65	9,242.76	-5,780.48	411.41	5,794.26	1.93	-1.54	-1.16
14,892.00	88.82	178.59	9,244.57	-5,868.43	413.53	5,882.20	0.07	0.00	-0.07
14,981.00	87.81	178.84	9,247.18	-5,957.37	415.53	5,971.12	1.17	-1.13	0.28
15,070.00	89.02	180.55	9,249.65	-6,046.33	416.00	6,059.97	2.35	1.36	1.92
15,158.00	92.21	181.91	9,248.70	-6,134.29	414.11	6,147.70	3.94	3.63	1.55
15,247.00	91.51	181.19	9,245.81	-6,223.21	411.71	6,236.36	1.13	-0.79	-0.81
15,336.00	90.28	179.26	9,244.42	-6,312.19	411.36	6,325.20	2.57	-1.38	-2.17
15,424.00	91.37	179.50	9,243.16	-6,400.18	412.31	6,413.10	1.27	1.24	0.27
15,513.00	91.18	179.15	9,241.18	-6,489.15	413.36	6,502.00	0.45	-0.21	-0.39
15,602.00	89.58	178.46	9,240.59	-6,578.13	415.21	6,590.95	1.96	-1.80	-0.78
15,690.00	89.19	177.75	9,241.53	-6,666.07	418.12	6,678.92	0.92	-0.44	-0.81

Company:	Chevron	**Local Co-ordinate Reference:**	Well 3H - Slot 3H
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:	3H	**North Reference:**	Grid
Wellbore:	OH / Job 1514335	**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)
15,779.00	88.99	178.72	9,242.94	-6,755.02	420.86	6,767.89	1.11	-0.22	1.09
15,867.00	89.44	180.19	9,244.15	-6,843.00	421.70	6,855.79	1.75	0.51	1.67
15,956.00	89.47	180.63	9,245.00	-6,932.00	421.06	6,944.62	0.50	0.03	0.49
16,045.00	90.53	180.20	9,245.00	-7,020.99	420.42	7,033.45	1.29	1.19	-0.48
16,133.00	90.14	178.62	9,244.48	-7,108.98	421.33	7,121.36	1.85	-0.44	-1.80
16,222.00	90.06	179.17	9,244.33	-7,197.97	423.04	7,210.31	0.62	-0.09	0.62
16,310.00	89.72	180.38	9,244.49	-7,285.96	423.39	7,298.19	1.43	-0.39	1.38
16,399.00	88.57	179.72	9,245.82	-7,374.95	423.31	7,387.05	1.49	-1.29	-0.74
16,431.00	88.04	179.17	9,246.77	-7,406.94	423.62	7,419.00	2.39	-1.66	-1.72
Final Phoenix Survey									
16,489.00	88.04	179.17	9,248.75	-7,464.90	424.46	7,476.92	0.00	0.00	0.00
Projection to TD									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
189.00	189.00	-0.38	0.12	First Phoenix Survey
16,431.00	9,246.77	-7,406.94	423.62	Final Phoenix Survey
16,489.00	9,248.75	-7,464.90	424.46	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

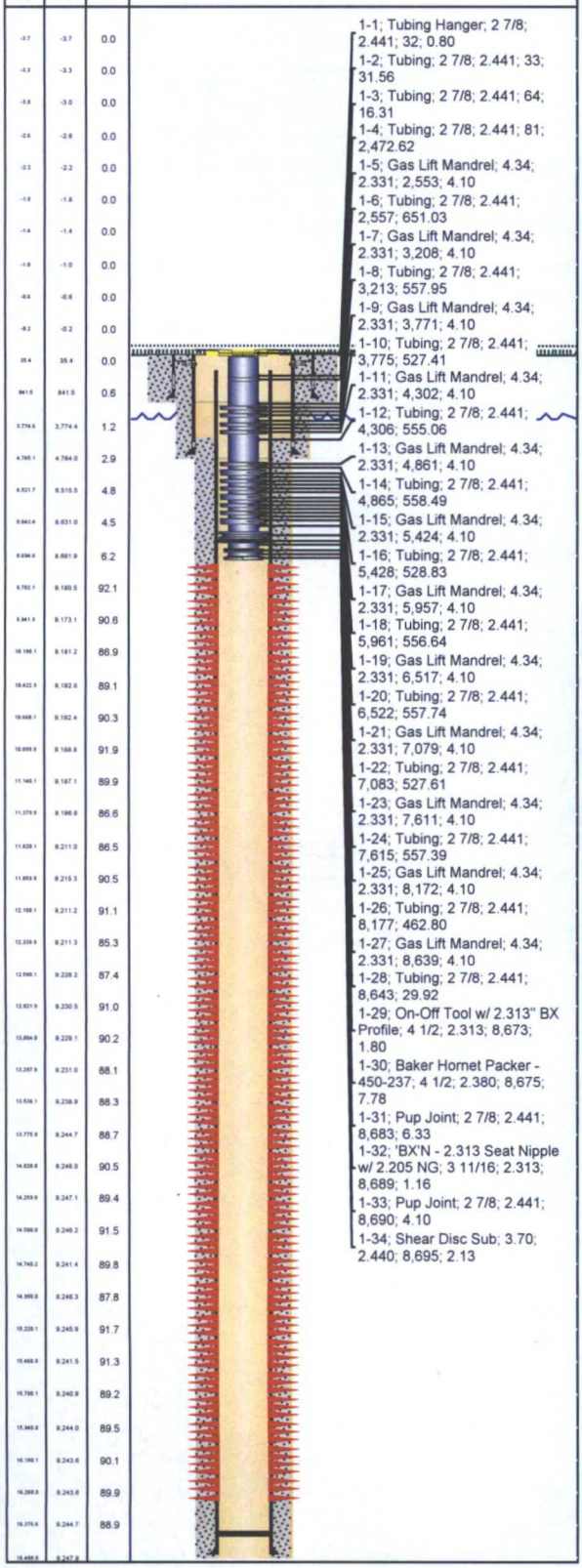
Tubing Summary

Well Name	Lease	Field Name	Business Unit
SALADO DRAW 29-26-33 FED COM 003H	Salado Draw 29-26-33 Fed	WILDCAT (HOBBS)	Mid-Continent

Ground Elevation (ft)	Original RKB Elevation (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,215.00	3,247.60	3,247.60, 9/18/2015		

Current KB to Ground (ft)	Current KB to Mud Line (ft)	Current KB to Csg Flange (ft)	Current KB to Tubing Head (ft)
32.60			

Land - Original Hole, 4/11/2016 8:10:00 AM



Tubing Strings

Tubing Description	Planned Run?	Set Depth (MD) (ftKB)	Set Depth (TVD) (ftKB)
Tubing - Production	N	8,696.7	8,684.2

Run Date	Run Job	Pull Date	Pull Job
4/11/2016	Complete, 1/30/2016 10:00		

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
1	Tubing Hanger	2 7/8	2.441				0.80	32.0	32.8
1	Tubing	2 7/8	2.441	6.50	L-80		31.56	32.8	64.4
2	Tubing	2 7/8	2.441	6.50	L-80		16.31	64.4	80.7
80	Tubing	2 7/8	2.441	6.50	L-80		2,472.62	80.7	2,553.3
1	Gas Lift Mandrel	4.335	2.331		L-80		4.10	2,553.3	2,557.4
21	Tubing	2 7/8	2.441	6.50	L-80		651.03	2,557.4	3,208.5
1	Gas Lift Mandrel	4.335	2.331		L-80		4.10	3,208.5	3,212.6
18	Tubing	2 7/8	2.441	6.50	L-80		557.95	3,212.6	3,770.5
1	Gas Lift Mandrel	4.335	2.331		L-80		4.10	3,770.5	3,774.6
17	Tubing	2 7/8	2.441	6.50	L-80		527.41	3,774.6	4,302.0
1	Gas Lift Mandrel	4.335	2.331		L-80		4.10	4,302.0	4,306.1
18	Tubing	2 7/8	2.441	6.50	L-80		555.06	4,306.1	4,861.2
1	Gas Lift Mandrel	4.335	2.331		L-80		4.10	4,861.2	4,865.3
18	Tubing	2 7/8	2.441	6.50	L-80		558.49	4,865.3	5,423.8
1	Gas Lift Mandrel	4.335	2.331		L-80		4.10	5,423.8	5,427.9
17	Tubing	2 7/8	2.441	6.50	L-80		528.83	5,427.9	5,956.7
1	Gas Lift Mandrel	4.335	2.331		L-80		4.10	5,956.7	5,960.8
18	Tubing	2 7/8	2.441	6.50	L-80		556.64	5,960.8	6,517.4
1	Gas Lift Mandrel	4.335	2.331		L-80		4.10	6,517.4	6,521.5
18	Tubing	2 7/8	2.441	6.50	L-80		557.74	6,521.5	7,079.3
1	Gas Lift Mandrel	4.335	2.331		L-80		4.10	7,079.3	7,083.4
17	Tubing	2 7/8	2.441	6.50	L-80		527.61	7,083.4	7,611.0
1	Gas Lift Mandrel	4.335	2.331		L-80		4.10	7,611.0	7,615.1
18	Tubing	2 7/8	2.441	6.50	L-80		557.39	7,615.1	8,172.5
1	Gas Lift Mandrel	4.335	2.331		L-80		4.10	8,172.5	8,176.6
15	Tubing	2 7/8	2.441	6.50	L-80		462.80	8,176.6	8,639.4
1	Gas Lift Mandrel	4.335	2.331		L-80		4.10	8,639.4	8,643.5
1	Tubing	2 7/8	2.441	6.50	L-80		29.92	8,643.5	8,673.4
1	On-Off Tool w/ 2.313" BX Profile	4 1/2	2.313				1.80	8,673.4	8,675.2
1	Baker Hornet Packer - 450-237	4 1/2	2.380				7.78	8,675.2	8,683.0
1	Pup Joint	2 7/8	2.441	6.50	L-80		6.33	8,683.0	8,689.3
1	'BX'N - 2.313 Seat Nipple w/ 2.205 NG	3 11/16	2.313				1.16	8,689.3	8,690.5
1	Pup Joint	2 7/8	2.441	6.50	L-80		4.10	8,690.5	8,694.6

Report Printed: 7/19/2016

Tubing Summary

Well Name	Lease	Field Name	Business Unit
SALADO DRAW 29-26-33 FED COM 003H	Salado Draw 29-26-33 Fed	WILDCAT (HOBBS)	Mid-Continent

Ground Elevation (ft)	Original RKB Elevation (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,215.00	3,247.60	3,247.60, 9/18/2015		

Current KB to Ground (ft)	Current KB to Mud Line (ft)	Current KB to Csg Flange (ft)	Current KB to Tubing Head (ft)
32.60			

Land - Original Hole, 4/11/2016 8:10:00 AM

MD (ftKB)	TVD (ftKB)	Incl (°)	Vertical schematic (actual)
-3.7	-3.7	0.0	1-1; Tubing Hanger; 2 7/8; 2.441; 32; 0.80
-3.3	-3.3	0.0	1-2; Tubing; 2 7/8; 2.441; 33; 31.56
-3.0	-3.0	0.0	1-3; Tubing; 2 7/8; 2.441; 64; 16.31
-2.6	-2.6	0.0	1-4; Tubing; 2 7/8; 2.441; 81; 2,472.62
-2.2	-2.2	0.0	1-5; Gas Lift Mandrel; 4.34; 2.331; 2,553; 4.10
-1.8	-1.8	0.0	1-6; Tubing; 2 7/8; 2.441; 2,557; 651.03
-1.4	-1.4	0.0	1-7; Gas Lift Mandrel; 4.34; 2.331; 3,208; 4.10
-1.0	-1.0	0.0	1-8; Tubing; 2 7/8; 2.441; 3,213; 557.95
-0.6	-0.6	0.0	1-9; Gas Lift Mandrel; 4.34; 2.331; 3,771; 4.10
-0.2	-0.2	0.0	1-10; Tubing; 2 7/8; 2.441; 3,775; 527.41
35.4	35.4	0.0	1-11; Gas Lift Mandrel; 4.34; 2.331; 4,302; 4.10
841.5	841.5	0.6	1-12; Tubing; 2 7/8; 2.441; 4,306; 555.06
3,774.9	3,774.4	1.2	1-13; Gas Lift Mandrel; 4.34; 2.331; 4,861; 4.10
4,765.1	4,764.0	2.9	1-14; Tubing; 2 7/8; 2.441; 4,865; 558.49
5,821.7	5,515.5	4.8	1-15; Gas Lift Mandrel; 4.34; 2.331; 5,424; 4.10
6,643.4	6,631.0	4.5	1-16; Tubing; 2 7/8; 2.441; 5,428; 528.83
6,694.6	6,681.9	6.2	1-17; Gas Lift Mandrel; 4.34; 2.331; 5,957; 4.10
9,792.1	9,160.5	92.1	1-18; Tubing; 2 7/8; 2.441; 5,961; 556.64
9,941.9	9,173.1	90.6	1-19; Gas Lift Mandrel; 4.34; 2.331; 6,517; 4.10
10,100.1	9,181.2	86.9	1-20; Tubing; 2 7/8; 2.441; 6,522; 557.74
10,422.9	9,192.6	89.1	1-21; Gas Lift Mandrel; 4.34; 2.331; 7,079; 4.10
10,680.1	9,192.4	90.3	1-22; Tubing; 2 7/8; 2.441; 7,083; 527.61
10,999.9	9,188.8	91.9	1-23; Gas Lift Mandrel; 4.34; 2.331; 7,611; 4.10
11,340.1	9,187.1	89.9	1-24; Tubing; 2 7/8; 2.441; 7,615; 557.39
11,379.9	9,186.6	86.6	1-25; Gas Lift Mandrel; 4.34; 2.331; 8,172; 4.10
11,628.1	9,211.0	86.5	1-26; Tubing; 2 7/8; 2.441; 8,177; 462.80
11,859.9	9,215.3	90.5	1-27; Gas Lift Mandrel; 4.34; 2.331; 8,639; 4.10
12,100.1	9,211.2	91.1	1-28; Tubing; 2 7/8; 2.441; 8,643; 29.92
12,339.9	9,211.3	85.3	1-29; On-Off Tool w/ 2.313" BX Profile; 4 1/2; 2.313; 8,673; 1.80
12,590.1	9,226.2	87.4	1-30; Baker Hornet Packer - 450-237; 4 1/2; 2.380; 8,675; 7.78
12,821.9	9,230.5	91.0	1-31; Pup Joint; 2 7/8; 2.441; 8,683; 6.33
13,094.9	9,229.1	90.2	1-32; 'BX'N - 2.313 Seat Nipple w/ 2.205 NG; 3 11/16; 2.313; 8,689; 1.16
13,297.9	9,231.0	88.1	1-33; Pup Joint; 2 7/8; 2.441; 8,690; 4.10
13,536.1	9,236.9	88.3	1-34; Shear Disc Sub; 3.70; 2.440; 8,695; 2.13
13,775.9	9,244.7	88.7	
14,020.9	9,246.0	90.5	
14,259.9	9,247.1	89.4	
14,500.9	9,248.2	91.5	
14,740.2	9,241.4	89.8	
14,980.9	9,246.3	87.8	
15,220.1	9,245.9	91.7	
15,460.9	9,241.5	91.3	
15,700.1	9,240.9	89.2	
15,940.9	9,244.0	89.5	
16,180.1	9,243.6	90.1	
16,260.6	9,243.6	89.9	
16,376.6	9,244.7	88.9	
16,485.3	9,247.8		

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
1	Shear Disc Sub	3.7	2.440				2.13	8,694.6	8,696.7

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)

Report Printed: 7/19/2016