

Phoenix Technology Services SURVEY DATA CERTIFICATION



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	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
5-Oct-15	189 ft	0.24	161.98

SURVEY INSTRUMENT
TYPE
Phoenix MWD

LAST	LAST		
SURVEY	SURVEY		
DATE	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	PROJECTED		
TD SURVEY	TD SURVEY		
DATE	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)



HOBBS OCD

OCT 27 2016

RECEIVED

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



Phoenix Technology Services LP Survey Report



Company: Chevron
Project: Lea County, NM (NAD27 NME)
Site: Salado Draw 29 26 33 Fed Com
Well: 3H
Wellbore: OH / Job 1514335
Design: Surveys (Pace X30)

Local Co-ordinate Reference: Well 3H - Slot 3H
TVD Reference: RKB @ 3242.00usft (Pace X30)
MD Reference: RKB @ 3242.00usft (Pace X30)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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
From:	Map	Easting:	727,838.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 1' 15.91374 N
		Longitude:	103° 35' 53.52012 W
		Grid Convergence:	0.39 °

Well	3H - Slot 3H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 1' 15.91037 N
		Longitude:	103° 35' 52.93938 W
		Ground Level:	3.215.00 usft

Wellbore	OH / Job 1514335		
Magnetics	Model Name	Sample Date	Declination
	HDGM	10/7/2015	(°)
			7.02
		Dip Angle	(°)
		59.75	
		Field Strength	(nT)
		48,070	

Design	Surveys (Pace X30)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			176.91

Survey Program	Date 11/11/2015		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
189.00	16,489.00	Phoenix MWD Surveys (OH / Job 1514335)	PHX+MWD+HDGM
			Description
			PHX+OWSG MWD + HDGM

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/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
780.00	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
1,128.00	0.59	241.56	1,128.97	-4.59	-3.85	4.38	0.03	-0.02	2.81
1,308.00	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



Phoenix Technology Services LP

Survey Report



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 MD Reference: RKB @ 3242.00usft (Pace X30)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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	-8.35	-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	126.73	-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	3.66
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	226.98	-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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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	318.37	-42.38	18.83	16.80	44.34
8,829.00	23.30	183.09	8,812.65	45.59	321.51	-28.17	18.51	17.53	18.29
8,873.00	29.17	185.47	8,852.11	28.86	328.74	-9.19	13.55	13.34	5.41
8,917.00	33.53	188.27	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	178.85	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	9,093.81	-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
9,658.00	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	0.06
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	9,215.66	-2,767.36	393.76	2,784.58	3.48	2.89	1.94



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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	-3,033.28	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	418.00	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



Phoenix Technology Services LP
Survey Report



Company: Chevron
Project: Lea County, NM (NAD27 NME)
Site: Salado Draw 29 28 33 Fed Com
Well: 3H
Wellbore: OH / Job 1514335
Design: Surveys (Pace X30)

Local Co-ordinate Reference: Well 3H - Slot 3H
TVD Reference: RKB @ 3242.00usft (Pace X30)
MD Reference: RKB @ 3242.00usft (Pace X30)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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	-8,755.02	420.88	6,767.89	1.11	-0.22	1.09
15,867.00	89.44	180.19	9,244.15	-8,843.00	421.70	6,855.79	1.75	0.51	1.67
15,956.00	89.47	180.63	9,245.00	-8,932.00	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		Comment
		+N/-S (usft)	+E/-W (usft)	
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: _____