

Phoenix Technology Services SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER **1514333**

OPERATOR **Chevron**

WELL NAME **Salado Draw 29-26-33 Fed Com 1H - OH**

COUNTY & STATE

Lea County, NM

API WELL NUMBER **30-025-42629**

PROPOSED DIRECTION **186.61**

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
15-Nov-15	185 ft	0.93	165.10

SURVEY INSTRUMENT
TYPE
Phoenix MWD

HOBBS OCD

MAR 13 2017

RECEIVED

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
2-Dec-15	16,487 ft	87.7	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
2-Dec-15	16,545 ft	87.7	180

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

12/2/2015

TODAY'S DATE

MWD SUPERVISOR 1

Robert Brewer

DIRECTIONAL DRILLER 1

Casey Tubbe

MWD SUPERVISOR 2

Greg Hurst

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
1H - Slot 1H

OH / Job 1514333

Survey: Phoenix MWD Surveys

Standard Survey Report

03 December, 2015





Phoenix Technology Services

Survey Report



Company: Chevron
Project: Lea County, NM (NAD27 NME)
Site: Salado Draw 29 26 33 Fed Com
Well: 1H
Wellbore: OH / Job 1514333
Design: Surveys (Pace X30)

Local Co-ordinate Reference: Well 1H - Slot 1H
TVD Reference: RKB @ 3240.00usft (Pace X30)
MD Reference: RKB @ 3240.00usft (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)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

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 1H - Slot 1H

Well Position +N-S 0.00 usft Northing: 372,173.00 usft Latitude: 32° 1' 15.91374 N
 +E-W 0.00 usft Easting: 727,838.00 usft Longitude: 103° 35' 53.52012 W
Position Uncertainty 0.00 usft Wellhead Elevation: 0.00 usft Ground Level: 3,213.00 usft

Wellbore OH / Job 1514333

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	186.61

Survey Program Date 12/3/2015

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
185.00	16,545.00	Phoenix MWD Surveys (OH / Job 1514333)	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	0.93	165.10	184.99	-1.45	0.39	1.40	0.50	0.50	0.00
First Phoenix Survey									
310.00	1.03	174.22	309.97	-3.55	0.76	3.44	0.15	0.08	7.30
499.00	0.97	172.30	498.94	-8.82	1.15	6.65	0.04	-0.03	-1.02
684.00	0.90	174.63	683.92	-9.82	1.49	9.59	0.04	-0.04	1.26
806.00	0.83	177.17	805.91	-11.66	1.62	11.39	0.07	-0.06	2.08
948.00	0.96	176.47	947.89	-13.87	1.75	13.58	0.09	0.09	-0.49
1,125.00	0.76	183.66	1,124.87	-16.53	1.76	16.21	0.13	-0.11	4.06
1,302.00	0.48	155.53	1,301.86	-18.37	2.00	18.02	0.23	-0.16	-15.89
1,480.00	0.52	286.87	1,479.86	-18.82	1.53	18.51	0.51	0.02	73.79



Phoenix Technology Services Survey Report



Company: Chevron
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Site: Salado Draw 29 28 33 Fed Com
Well: 1H
Wellbore: OH / Job 1514333
Design: Surveys (Pace X30)

Local Co-ordinate Reference: Well 1H - Slot 1H
TVD Reference: RKB @ 3240.00usft (Pace X30)
MD Reference: RKB @ 3240.00usft (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)
1,657.00	1.99	289.04	1,656.81	-17.58	-2.14	17.71	0.83	0.83	1.23
1,834.00	2.27	288.16	1,833.69	-15.49	-8.38	18.35	0.16	0.16	-0.50
2,011.00	2.46	299.00	2,010.54	-12.55	-15.03	14.20	0.27	0.11	6.12
2,188.00	2.19	294.76	2,187.39	-9.29	-21.42	11.70	0.18	-0.15	-2.40
2,365.00	1.73	300.47	2,364.29	-6.52	-26.80	9.56	0.28	-0.26	3.23
2,543.00	3.31	291.79	2,542.11	-3.25	-33.88	7.13	0.91	0.89	-4.88
2,720.00	1.60	300.53	2,718.94	-0.10	-40.76	4.79	0.99	-0.97	4.94
2,898.00	1.91	304.44	2,896.86	2.84	-45.35	2.40	0.19	0.17	2.20
3,075.00	2.04	284.73	3,073.75	5.31	-50.83	0.57	0.39	0.07	-11.14
3,252.00	2.10	274.66	3,250.64	6.37	-57.10	0.24	0.21	0.03	-5.69
3,429.00	1.94	275.46	3,427.53	6.92	-63.32	0.41	0.09	-0.09	0.45
3,607.00	2.74	281.57	3,605.38	8.06	-70.49	0.10	0.47	0.45	3.43
3,784.00	4.11	288.51	3,782.06	10.93	-80.65	-1.57	0.81	0.77	3.92
3,962.00	5.61	285.22	3,959.42	15.23	-95.09	-4.19	0.86	0.84	-1.85
4,139.00	6.32	285.32	4,135.46	20.08	-112.84	-6.96	0.40	0.40	0.06
4,316.00	6.78	280.36	4,311.30	24.53	-132.51	-9.12	0.41	0.26	-2.80
4,493.00	6.93	278.29	4,487.04	27.95	-153.35	-10.12	0.16	0.08	-1.17
4,671.00	6.93	277.19	4,663.74	30.84	-174.63	-10.55	0.07	0.00	-0.62
4,742.00	6.96	276.75	4,734.22	31.89	-183.16	-10.60	0.09	0.04	-0.62
4,863.00	6.40	275.70	4,854.39	33.42	-197.15	-10.51	0.47	-0.46	-0.87
5,040.00	7.80	269.40	5,030.03	34.27	-218.97	-8.85	0.90	0.79	-3.56
5,218.00	7.50	268.40	5,206.45	33.82	-242.66	-5.68	0.18	-0.17	-0.56
5,395.00	8.60	267.20	5,381.70	32.85	-267.43	-1.86	0.63	0.62	-0.68
5,572.00	10.00	272.80	5,556.38	32.96	-296.00	1.32	0.94	0.79	3.16
5,749.00	9.50	271.80	5,730.82	34.17	-325.95	3.56	0.30	-0.28	-0.56
5,927.00	9.60	273.10	5,906.35	35.43	-355.45	5.70	0.13	0.06	0.73
6,104.00	9.60	280.10	6,080.88	38.82	-384.72	5.71	0.66	0.00	3.95
6,281.00	10.60	279.60	6,255.13	44.12	-415.30	3.96	0.57	0.56	-0.28
6,459.00	10.10	278.00	6,430.24	49.02	-446.90	2.72	0.32	-0.28	-0.90
6,636.00	9.30	275.00	6,604.71	52.43	-476.52	2.75	0.53	-0.45	-1.69
6,813.00	8.60	271.70	6,779.55	54.07	-504.00	4.28	0.49	-0.40	-1.86
6,991.00	9.40	275.10	6,955.36	55.75	-531.78	5.80	0.54	0.45	1.91
7,169.00	9.50	271.90	7,130.95	57.53	-560.94	7.39	0.30	0.06	-1.80
7,346.00	9.30	272.90	7,305.57	58.74	-589.82	9.51	0.15	-0.11	0.56
7,524.00	9.70	273.80	7,481.13	60.46	-619.15	11.18	0.24	0.22	0.51
7,701.00	10.00	269.30	7,655.52	61.26	-649.39	13.86	0.47	0.17	-2.54
7,878.00	10.20	272.00	7,829.78	61.62	-680.42	17.07	0.29	0.11	1.53
8,056.00	10.50	274.00	8,004.88	63.30	-712.35	19.08	0.26	0.17	1.12
8,233.00	10.80	277.30	8,178.84	66.54	-744.89	19.61	0.38	0.17	1.86
8,410.00	9.40	275.30	8,353.09	69.98	-775.73	19.74	0.82	-0.79	-1.13
8,587.00	10.60	269.80	8,527.40	71.26	-806.41	22.00	0.87	0.68	-3.11
8,686.00	9.30	270.60	8,624.91	71.31	-823.51	23.92	1.32	-1.31	0.81
8,743.00	9.10	267.80	8,681.18	71.18	-832.62	25.09	0.86	-0.35	-4.91



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Wellbore: OH / Job 1514333
Design: Surveys (Pace X30)

Local Co-ordinate Reference: Well 1H - Slot 1H
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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)
8,787.00	13.30	245.30	8,724.35	68.93	-840.70	28.25	13.61	9.55	-51.14
8,832.00	18.60	233.40	8,767.61	62.49	-851.18	35.86	13.78	11.78	-26.44
8,876.00	24.80	224.30	8,808.49	51.68	-863.27	47.99	15.99	14.09	-20.68
8,920.00	29.00	214.70	8,847.74	36.30	-875.80	64.71	13.70	9.55	-21.82
8,965.00	32.20	202.00	8,886.50	16.19	-886.52	85.92	15.99	7.11	-28.22
9,009.00	36.40	193.60	8,922.87	-7.40	-893.98	110.21	14.36	9.55	-19.09
9,053.00	42.40	187.50	8,956.86	-34.83	-899.00	136.04	16.22	13.64	-13.86
9,098.00	48.40	183.60	8,988.45	-66.70	-902.04	170.04	14.69	13.33	-8.67
9,142.00	53.00	182.70	9,016.31	-100.69	-903.90	204.02	10.57	10.45	-2.05
9,186.00	57.50	182.90	9,041.39	-136.79	-905.67	240.08	10.23	10.23	0.45
9,231.00	61.90	183.20	9,064.08	-175.58	-907.74	278.85	9.79	9.78	0.67
9,275.00	65.40	183.40	9,083.61	-214.93	-910.01	318.21	7.96	7.95	0.45
9,319.00	69.70	182.00	9,100.41	-255.54	-911.91	358.77	10.21	9.77	-3.18
9,364.00	73.20	179.90	9,114.73	-298.19	-912.61	401.21	8.95	7.78	-4.67
9,408.00	77.10	177.10	9,126.00	-340.69	-911.49	443.30	10.79	8.86	-6.36
9,452.00	80.60	177.20	9,134.51	-383.80	-909.34	485.88	7.96	7.95	0.23
9,496.00	83.40	176.50	9,140.63	-427.34	-907.71	528.94	7.00	6.36	2.95
9,566.00	86.60	182.10	9,146.74	-497.05	-908.08	586.23	6.87	4.57	5.14
9,655.00	85.60	182.10	9,152.79	-585.78	-911.34	686.75	1.12	-1.12	0.00
9,743.00	87.30	181.40	9,158.24	-673.57	-914.02	774.26	2.09	1.93	-0.80
9,832.00	89.80	180.40	9,160.49	-762.52	-915.41	862.78	3.03	2.81	-1.12
9,921.00	88.80	178.30	9,161.58	-851.50	-914.40	951.06	2.61	-1.12	-2.36
10,010.00	90.20	179.90	9,162.35	-940.48	-913.01	1,039.29	2.39	1.57	1.80
10,098.00	89.40	179.90	9,162.66	-1,028.48	-912.85	1,126.68	0.91	-0.91	0.00
10,187.00	89.30	181.90	9,163.67	-1,117.46	-914.25	1,215.23	2.25	-0.11	2.25
10,276.00	87.60	177.40	9,166.08	-1,206.40	-913.71	1,303.52	5.40	-1.91	-5.06
10,364.00	90.20	176.40	9,167.77	-1,294.25	-908.95	1,390.23	3.17	2.95	-1.14
10,453.00	91.00	175.70	9,166.84	-1,383.03	-902.82	1,477.72	1.19	0.90	-0.79
10,542.00	89.50	175.40	9,166.45	-1,471.76	-895.92	1,565.07	1.72	-1.69	-0.34
10,630.00	88.30	175.70	9,168.14	-1,559.47	-889.09	1,651.41	1.41	-1.36	0.34
10,719.00	89.50	176.60	9,169.85	-1,648.25	-883.11	1,738.92	1.69	1.35	1.01
10,807.00	89.40	180.00	9,170.69	-1,736.20	-880.50	1,825.98	3.87	-0.11	3.86
10,896.00	88.40	181.40	9,172.40	-1,825.17	-881.59	1,914.48	1.93	-1.12	1.57
10,985.00	92.70	182.60	9,171.55	-1,914.09	-884.70	2,003.17	5.02	4.83	1.35
11,073.00	92.00	181.20	9,167.94	-2,001.97	-887.61	2,090.80	1.78	-0.80	-1.59
11,162.00	90.70	180.40	9,165.84	-2,090.93	-888.85	2,179.31	1.71	-1.46	-0.90
11,250.00	89.50	180.00	9,165.69	-2,178.93	-889.16	2,266.76	1.44	-1.36	-0.45
11,339.00	88.10	180.00	9,167.55	-2,267.91	-889.16	2,355.15	1.57	-1.57	0.00
11,427.00	89.40	182.20	9,169.47	-2,355.86	-890.85	2,442.72	2.90	1.48	2.50
11,516.00	92.40	183.50	9,168.07	-2,444.73	-895.27	2,531.50	3.67	3.37	1.46
11,604.00	91.00	181.70	9,165.46	-2,532.59	-899.26	2,619.24	2.59	-1.59	-2.05
11,693.00	91.40	181.70	9,163.60	-2,621.53	-901.90	2,707.90	0.45	0.45	0.00
11,781.00	92.50	182.20	9,160.60	-2,709.43	-904.90	2,795.55	1.37	1.25	0.57



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North Reference: Gnd
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)
11,870.00	91.10	179.70	9,157.81	-2,798.37	-906.37	2,884.07	3.22	-1.57	-2.81
11,959.00	89.50	178.70	9,157.34	-2,887.35	-905.13	2,972.32	2.12	-1.80	-1.12
12,047.00	88.00	177.80	9,159.26	-2,975.29	-902.44	3,059.36	1.99	-1.70	-1.02
12,136.00	87.60	178.20	9,162.68	-3,064.17	-899.34	3,147.29	0.64	-0.45	0.45
12,224.00	88.20	178.90	9,165.90	-3,152.08	-897.11	3,234.36	1.05	0.68	0.80
12,313.00	88.80	177.30	9,168.23	-3,241.00	-894.16	3,322.35	1.92	0.67	-1.80
12,402.00	89.20	175.20	9,169.79	-3,329.79	-888.34	3,409.88	2.40	0.45	-2.36
12,490.00	88.40	174.60	9,171.63	-3,417.42	-880.52	3,496.03	1.14	-0.91	-0.68
12,579.00	88.30	177.40	9,174.19	-3,506.15	-874.32	3,583.47	3.15	-0.11	3.15
12,667.00	86.40	178.70	9,178.26	-3,594.00	-871.32	3,670.39	2.62	-2.16	1.48
12,756.00	86.30	181.50	9,183.93	-3,682.81	-871.48	3,758.63	3.14	-0.11	3.15
12,845.00	88.90	183.70	9,187.65	-3,771.63	-875.51	3,847.32	3.83	2.92	2.47
12,934.00	90.90	184.50	9,187.81	-3,860.40	-881.88	3,936.23	2.42	2.25	0.90
13,023.00	92.30	182.90	9,185.32	-3,949.17	-887.62	4,025.07	2.39	1.57	-1.80
13,111.00	91.00	180.20	9,182.79	-4,037.09	-890.00	4,112.68	3.40	-1.48	-3.07
13,200.00	90.30	179.40	9,181.78	-4,126.09	-889.69	4,201.05	1.19	-0.79	-0.90
13,289.00	91.00	178.50	9,180.77	-4,215.06	-888.05	4,289.25	1.28	0.79	-1.01
13,378.00	91.80	177.50	9,178.60	-4,303.98	-884.95	4,377.22	1.44	0.90	-1.12
13,467.00	91.00	177.90	9,176.42	-4,392.88	-881.38	4,465.12	1.00	-0.90	0.45
13,555.00	89.00	178.50	9,176.42	-4,480.83	-878.61	4,552.17	2.37	-2.27	0.68
13,644.00	86.70	178.50	9,179.76	-4,569.74	-876.29	4,640.21	2.58	-2.58	0.00
13,732.00	87.10	179.00	9,184.52	-4,657.59	-874.37	4,727.26	0.73	0.45	0.57
13,821.00	86.90	178.90	9,189.18	-4,746.45	-872.74	4,815.34	0.25	-0.22	-0.11
13,909.00	88.40	179.40	9,192.79	-4,834.36	-871.44	4,902.52	1.80	1.70	0.57
13,998.00	88.30	179.60	9,195.35	-4,923.32	-870.66	4,990.80	0.25	-0.11	0.22
14,087.00	91.00	181.30	9,195.89	-5,012.31	-871.36	5,079.27	3.58	3.03	1.91
14,175.00	90.00	179.30	9,195.12	-5,100.30	-871.82	5,166.73	2.54	-1.14	-2.27
14,264.00	89.30	178.00	9,195.67	-5,189.27	-869.72	5,254.87	1.66	-0.79	-1.46
14,352.00	88.90	175.60	9,197.05	-5,277.11	-864.81	5,341.57	2.76	-0.45	-2.73
14,441.00	87.80	173.80	9,199.61	-5,365.69	-856.60	5,428.61	2.37	-1.24	-2.02
14,529.00	89.30	176.40	9,201.84	-5,453.33	-849.08	5,514.81	3.41	1.70	2.95
14,618.00	90.10	177.80	9,202.31	-5,542.21	-844.58	5,602.58	1.81	0.90	1.57
14,707.00	91.00	178.90	9,201.45	-5,631.17	-842.02	5,690.65	1.60	1.01	1.24
14,796.00	91.60	177.80	9,199.43	-5,720.11	-839.46	5,778.70	1.41	0.67	-1.24
14,884.00	89.40	177.90	9,198.66	-5,808.04	-836.16	5,865.67	2.50	-2.50	0.11
14,973.00	88.40	180.60	9,200.37	-5,897.00	-834.99	5,953.91	3.23	-1.12	3.03
15,061.00	90.20	182.20	9,201.45	-5,984.96	-837.14	6,041.54	2.74	2.05	1.82
15,150.00	90.20	180.40	9,201.14	-6,073.94	-839.16	6,130.15	2.02	0.00	-2.02
15,239.00	91.00	181.20	9,200.21	-6,162.92	-840.40	6,218.69	1.27	0.90	0.90
15,327.00	91.50	181.40	9,198.29	-6,250.88	-842.40	6,306.29	0.61	0.57	0.23
15,416.00	92.00	181.20	9,195.57	-6,339.81	-844.42	6,394.87	0.61	0.56	-0.22
15,504.00	87.30	179.70	9,196.11	-6,427.78	-845.11	6,482.33	5.61	-5.34	-1.70
15,593.00	88.20	181.50	9,199.60	-6,516.70	-846.04	6,570.77	2.26	1.01	2.02
15,681.00	89.20	182.00	9,201.60	-6,604.64	-848.73	6,658.43	1.27	1.14	0.57



Phoenix Technology Services Survey Report



Company: Chevron
Project: Lea County, NM (NAD27 NME)
Site: Salado Draw 29 26 33 Fed Com
Well: 1H
Wellbore: OH / Job 1514333
Design: Surveys (Pace X30)

Local Co-ordinate Reference: Well 1H - Slot 1H
TVD Reference: RKB @ 3240.00usft (Pace X30)
MD Reference: RKB @ 3240.00usft (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)
15,770.00	90.20	182.90	9,202.06	-6,693.55	-852.53	6,747.19	1.51	1.12	1.01
15,859.00	89.70	182.40	9,202.14	-6,782.46	-856.64	6,835.98	0.79	-0.56	-0.56
15,947.00	89.20	181.40	9,202.98	-6,870.40	-859.56	6,923.68	1.27	-0.57	-1.14
16,036.00	91.30	183.00	9,202.60	-6,959.33	-862.98	7,012.40	2.97	2.36	1.80
16,125.00	89.10	181.00	9,202.29	-7,048.27	-866.08	7,101.11	3.34	-2.47	-2.25
16,214.00	90.90	185.80	9,202.29	-7,137.08	-871.36	7,189.94	5.76	2.02	5.39
16,303.00	89.90	183.70	9,201.66	-7,225.76	-878.73	7,278.88	2.61	-1.12	-2.36
16,391.00	88.90	182.00	9,202.59	-7,313.65	-883.10	7,366.68	2.24	-1.14	-1.93
16,487.00	87.70	180.00	9,205.43	-7,409.58	-884.78	7,462.18	2.43	-1.25	-2.08
Final Phoenix Survey									
16,545.00	87.70	180.00	9,207.76	-7,467.54	-884.78	7,519.74	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	184.99	-1.45	0.39	First Phoenix Survey
16,487.00	9,205.43	-7,409.58	-884.78	Final Phoenix Survey
16,545.00	9,207.76	-7,467.54	-884.78	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

Exhibit A-1

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-42629	² Pool Code 97955	³ Well Name WC-025-G-06 5263319P, BONE SPRING
⁴ Property Code 314914	⁵ Property Name SALADO DRAW 29 26 33 FED COM	
⁶ OGRID No. 4323	⁷ Operator Name CHEVRON U.S.A. INC.	⁸ Well Number 1H
		⁹ Elevation 3213'

" Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	29	26 SOUTH	33 EAST, N.M.P.M.		200'	NORTH	1283'	WEST	LEA

" Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	32	26 SOUTH	33 EAST, N.M.P.M.	4	280'	SOUTH	355'	WEST	LEA

¹⁰ Dedicated Acres 237.34	¹¹ Joint or Infill	¹² Consolidation Code	¹³ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

SALADO DRAW 29 26 33 FED COM NO. 1H WELL X= 727,838 NAD 27 Y= 372,173 LAT. 32.021087 LONG. 103.598200 X= 769,026 NAD83 Y= 372,230 LAT. 32.021212 LONG. 103.598667 ELEVATION 3213' NAVD 88		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or in a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>Cindy Herrera-Murillo</u> 9-18-14 Printed Name: <u>Cindy Herrera-Murillo</u> E-mail Address: <u>Cherreramurillo@chevron.com</u>
PROPOSED BOTTOM HOLE LOCATION X= 728,970 NAD 27 Y= 364,818 LAT. 32.000886 LONG. 103.601181 X= 768,158 NAD83 Y= 364,875 LAT. 32.001011 LONG. 103.601627		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey: <u>4.30.14</u> Signature and Seal of Professional Surveyor: <u>WM. J. DANIEL III</u> Certificate Number: <u>15078</u>

CORNER COORDINATES TABLE (NAD 27)

A - Y=372364.44, X=726553.40
B - Y=372373.27, X=727875.49
C - Y=371043.84, X=726583.92
D - Y=371053.27, X=727885.85
E - Y=364535.63, X=726617.46
F - Y=364544.81, X=727938.29

JUN 16 2015

Phoenix Technology Services
SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER

1514333

OPERATOR

Chevron

WELL NAME

Salado Draw 29-26-33 Fed Com 1H ST01

COUNTY & STATE

Lea County, NM

API WELL NUMBER

30-025-42629

PROPOSED DIRECTION

185.47

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
8,056 ft	8,004.88 ft	10.5 ft	274.0 ft	63.30 ft	-712.35 ft	Phoenix MWD

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
11-Dec-15	8,161 ft	9.60	274.80

SURVEY INSTRUMENT
TYPE

Phoenix MWD

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
20-Jan-16	16,417 ft	87.6	175.00

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
20-Jan-16	16,467 ft	87.6	175.00

Robert Brewer

PRINT YOUR NAME ABOVE

Robert Brewer

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	6.63
DECLINATION OR GRID	GRID

01/20/16

TODAY'S DATE

MWD SUPERVISOR 1

Robert Brewer

DIRECTIONAL DRILLER 1

Casey Tubbe

MWD SUPERVISOR 2

Greg Hurst

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
1H - Slot 1H**

ST01 / Job 1514333

Survey: Phoenix MWD Surveys

Standard Survey Report

20 January, 2016





Phoenix Technology Services Survey Report



Company: Chevron
Project: Lea County, NM (NAD27 NME)
Site: Salado Draw 29 26 33 Fed Com
Well: 1H
Wellbore: ST01 / Job 1514333
Design: Surveys (Pace X30)

Local Co-ordinate Reference: Well 1H - Slot 1H
TVD Reference: RKB @ 3240.00usft (Pace X30)
MD Reference: RKB @ 3240.00usft (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)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

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 1H - Slot 1H

Well Position +N/-S 0.00 usft Northing: 372,173.00 usft Latitude: 32° 1' 15.91374 N
+E/-W 0.00 usft Easting: 727,838.00 usft Longitude: 103° 35' 53.52012 W
Position Uncertainty 0.00 usft **Wellhead Elevation:** 0.00 usft **Ground Level:** 3,213.00 usft

Wellbore ST01 / Job 1514333

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:** 8,056.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	185.47

Survey Program Date 1/20/2016

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
185.00	8,056.00	Phoenix MWD Surveys (OH / Job 1514333)	PHX+MWD+HDGM	PHX+OWSG MWD + HDGM
8,161.00	16,467.00	Phoenix MWD Surveys (ST01 / Job 15143)	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)
8,056.00	10.50	274.00	8,004.88	63.30	-712.35	4.91	0.00	0.00	0.00
Tie In to OH Phoenix MWD Surveys									
8,161.00	9.60	274.80	8,108.27	64.70	-730.62	5.26	0.87	-0.86	0.76
First ST01 Phoenix MWD Survey									
8,261.00	13.00	254.30	8,206.36	62.36	-749.77	9.42	5.21	3.40	-20.50
8,338.00	13.70	244.30	8,281.29	56.06	-766.33	17.27	3.13	0.91	-12.99
8,427.00	15.60	231.90	8,367.37	44.01	-785.37	31.08	4.25	2.36	-13.93
8,516.00	14.80	222.70	8,453.23	28.17	-802.61	48.48	2.95	-1.12	-10.34
8,604.00	15.20	208.90	8,538.26	9.81	-815.81	68.03	4.07	0.45	-15.68



Phoenix Technology Services Survey Report



Company: Chevron
Project: Lea County, NM (NAD27 NME)
Site: Salado Draw 29 26 33 Fed Corn
Well: 1H
Wellbore: ST01 / Job 1514333
Design: Surveys (Pace X30)

Local Co-ordinate Reference: Well 1H - Slot 1H
TVD Reference: RKB @ 3240.00usft (Pace X30)
MD Reference: RKB @ 3240.00usft (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)
8,693.00	13.90	195.60	8,624.42	-10.71	-824.33	89.26	4.02	-1.46	-14.94
8,781.00	13.30	183.20	8,709.97	-31.00	-827.74	109.79	3.38	-0.68	-14.09
8,826.00	13.40	182.60	8,753.76	-41.38	-828.26	120.17	0.38	0.22	-1.33
8,870.00	16.60	179.90	8,796.25	-52.76	-828.49	131.52	7.44	7.27	-6.14
8,914.00	21.20	176.50	8,837.87	-66.99	-827.99	145.64	10.75	10.45	-7.73
8,959.00	24.80	172.20	8,879.29	-84.47	-826.21	162.87	8.82	8.00	-9.56
9,003.00	28.90	169.90	8,918.54	-104.09	-823.09	182.10	9.61	9.32	-5.23
9,050.00	33.20	169.10	8,958.80	-127.92	-818.66	205.40	9.19	9.15	-1.70
9,094.00	38.30	170.90	8,994.50	-153.23	-814.23	230.17	11.83	11.59	4.09
9,138.00	43.90	173.10	9,027.64	-181.86	-810.23	258.29	13.14	12.73	5.00
9,183.00	50.30	174.50	9,058.26	-214.62	-806.70	290.56	14.40	14.22	3.11
9,227.00	56.10	176.00	9,084.60	-249.71	-803.80	325.22	13.48	13.18	3.41
9,271.00	63.20	178.00	9,106.82	-287.60	-801.84	362.75	16.61	16.14	4.55
9,332.00	70.30	178.40	9,130.89	-343.59	-800.08	418.31	11.65	11.64	0.66
9,363.00	74.40	177.10	9,140.29	-373.10	-798.92	447.58	13.82	13.23	-4.19
9,395.00	79.50	175.80	9,147.51	-404.20	-796.99	478.35	16.42	15.94	-4.06
9,426.00	83.70	175.00	9,152.04	-434.76	-794.53	508.54	13.79	13.55	-2.58
9,521.00	91.70	177.00	9,155.85	-529.37	-787.91	602.09	8.68	8.42	2.11
9,615.00	90.60	178.20	9,153.96	-623.27	-783.98	695.18	1.73	-1.17	1.28
9,710.00	90.60	178.50	9,152.97	-718.22	-781.24	789.44	0.32	0.00	0.32
9,804.00	90.20	177.70	9,152.31	-812.17	-778.13	882.66	0.95	-0.43	-0.85
9,899.00	90.40	178.00	9,151.81	-907.10	-774.56	976.82	0.38	0.21	0.32
9,993.00	89.20	178.60	9,152.14	-1,001.06	-771.78	1,070.09	1.43	-1.28	0.64
10,087.00	89.40	178.70	9,153.29	-1,095.02	-769.56	1,163.41	0.24	0.21	0.11
10,182.00	90.50	178.00	9,153.37	-1,189.98	-766.83	1,257.68	1.37	1.16	-0.74
10,276.00	89.20	178.50	9,153.62	-1,283.94	-763.96	1,350.93	1.48	-1.38	0.53
10,371.00	88.10	179.30	9,155.86	-1,378.89	-762.13	1,445.28	1.43	-1.16	0.84
10,465.00	89.10	178.70	9,158.15	-1,472.85	-760.49	1,538.65	1.24	1.06	-0.64
10,560.00	90.70	179.30	9,158.32	-1,567.83	-758.83	1,633.04	1.80	1.68	0.63
10,655.00	89.50	179.90	9,158.15	-1,662.82	-758.17	1,727.54	1.41	-1.26	0.63
10,749.00	87.80	178.20	9,160.37	-1,756.78	-756.61	1,820.92	2.56	-1.81	-1.81
10,844.00	90.50	179.30	9,161.78	-1,851.73	-754.54	1,915.24	3.07	2.84	1.16
10,938.00	90.80	178.50	9,160.71	-1,945.71	-752.74	2,008.62	0.91	0.32	-0.85
11,033.00	89.60	179.70	9,160.38	-2,040.69	-751.24	2,103.03	1.79	-1.26	1.26
11,127.00	89.00	180.10	9,161.53	-2,134.69	-751.08	2,196.58	0.77	-0.64	0.43
11,222.00	89.70	180.30	9,162.60	-2,229.68	-751.41	2,291.17	0.77	0.74	0.21
11,317.00	88.80	180.00	9,163.85	-2,324.67	-751.66	2,385.75	1.00	-0.95	-0.32
11,412.00	90.00	180.20	9,164.84	-2,419.66	-751.83	2,480.32	1.28	1.26	0.21
11,506.00	89.20	178.40	9,165.50	-2,513.65	-750.68	2,573.77	2.10	-0.85	-1.91
11,601.00	89.50	178.40	9,166.58	-2,608.60	-748.03	2,668.04	0.32	0.32	0.00
11,695.00	88.70	179.50	9,168.05	-2,702.58	-746.30	2,761.42	1.45	-0.85	1.17
11,790.00	89.10	179.10	9,169.88	-2,797.55	-745.14	2,855.85	0.60	0.42	-0.42
11,884.00	90.30	178.20	9,170.37	-2,891.52	-742.93	2,949.18	1.60	1.28	-0.96



Phoenix Technology Services Survey Report



Company: Chevron
Project: Lea County, NM (NAD27 NME)
Site: Salado Draw 29 26 33 Fed Com
Well: 1H
Wellbore: ST01 / Job 1514333
Design: Surveys (Pace X30)

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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)
11.978.00	90.80	179.30	9.169.47	-2.985.49	-740.88	3.042.53	1.29	0.53	1.17
12.073.00	90.40	180.40	9.168.47	-3.080.48	-740.63	3.137.07	1.23	-0.42	1.16
12.167.00	89.20	180.70	9.168.80	-3.174.48	-741.53	3.230.72	1.32	-1.28	0.32
12.262.00	88.80	180.70	9.170.46	-3.269.46	-742.69	3.325.38	0.42	-0.42	0.00
12.356.00	89.20	180.60	9.172.10	-3.363.44	-743.76	3.419.03	0.44	0.43	-0.11
12.451.00	88.60	180.10	9.173.92	-3.458.42	-744.34	3.513.63	0.82	-0.63	-0.53
12.545.00	89.00	178.90	9.175.89	-3.552.39	-743.52	3.607.10	1.35	0.43	-1.28
12.640.00	91.60	177.80	9.175.39	-3.647.34	-740.78	3.701.36	2.97	2.74	-1.16
12.734.00	96.20	179.30	9.169.00	-3.741.06	-738.41	3.794.43	5.15	4.89	1.60
12.828.00	100.50	182.90	9.155.35	-3.834.01	-740.18	3.887.12	5.94	4.57	3.83
12.922.00	97.40	180.40	9.140.73	-3.926.81	-742.84	3.979.75	4.22	-3.30	-2.66
13.017.00	96.00	180.60	9.129.64	-4.021.16	-743.66	4.073.74	1.49	-1.47	0.21
13.111.00	92.50	180.40	9.122.68	-4.114.88	-744.48	4.167.12	3.73	-3.72	-0.21
13.206.00	90.80	180.30	9.119.94	-4.209.83	-745.06	4.261.70	1.79	-1.79	-0.11
13.300.00	89.80	181.70	9.119.45	-4.303.82	-746.70	4.355.40	1.83	-1.06	1.49
13.395.00	87.80	180.60	9.121.44	-4.398.77	-748.61	4.450.11	2.40	-2.11	-1.16
13.489.00	87.70	180.70	9.125.13	-4.492.69	-749.67	4.543.70	0.15	-0.11	0.11
13.584.00	85.60	180.80	9.130.68	-4.587.51	-750.92	4.638.21	2.21	-2.21	0.11
13.678.00	85.50	180.60	9.137.97	-4.681.22	-752.06	4.731.60	0.24	-0.11	-0.21
13.773.00	87.90	180.60	9.143.44	-4.776.05	-753.05	4.826.10	2.53	2.53	0.00
13.867.00	88.00	180.70	9.146.80	-4.869.99	-754.12	4.919.71	0.15	0.11	0.11
13.962.00	85.80	178.50	9.151.94	-4.964.84	-753.46	5.014.06	3.27	-2.32	-2.32
14.056.00	87.00	177.70	9.157.84	-5.058.60	-750.35	5.107.09	1.53	1.28	-0.85
14.151.00	87.70	177.60	9.162.24	-5.153.41	-746.46	5.201.11	0.74	0.74	-0.11
14.246.00	86.60	176.30	9.166.96	-5.248.16	-741.41	5.294.94	1.79	-1.16	-1.37
14.340.00	90.00	176.80	9.169.75	-5.341.93	-735.76	5.387.75	3.66	3.62	0.53
14.435.00	91.50	178.50	9.168.51	-5.436.84	-731.86	5.481.85	2.39	1.58	1.79
14.529.00	91.80	179.40	9.165.80	-5.530.78	-730.14	5.575.20	1.01	0.32	0.96
14.624.00	91.50	178.90	9.163.06	-5.625.73	-728.73	5.669.59	0.61	-0.32	-0.53
14.719.00	89.20	179.30	9.162.48	-5.720.71	-727.24	5.763.99	2.46	-2.42	0.42
14.814.00	90.20	179.30	9.162.98	-5.815.70	-726.08	5.858.44	1.05	1.05	0.00
14.908.00	88.00	179.70	9.164.46	-5.909.68	-725.26	5.951.91	2.38	-2.34	0.43
15.003.00	89.80	179.50	9.166.28	-6.004.66	-724.60	6.046.39	1.91	1.89	-0.21
15.097.00	88.20	178.50	9.167.92	-6.098.62	-722.96	6.139.77	2.01	-1.70	-1.06
15.191.00	87.50	178.10	9.171.45	-6.192.52	-720.17	6.232.97	0.86	-0.74	-0.43
15.286.00	90.40	179.00	9.173.19	-6.287.46	-717.77	6.327.25	3.20	3.05	0.95
15.381.00	91.60	178.70	9.171.53	-6.382.42	-715.86	6.421.60	1.30	1.26	-0.32
15.475.00	93.20	179.80	9.167.59	-6.476.33	-714.63	6.514.96	2.06	1.70	1.17
15.569.00	88.80	178.80	9.165.95	-6.570.28	-713.48	6.608.38	4.80	-4.68	-1.06
15.664.00	89.30	178.70	9.167.53	-6.665.25	-711.41	6.702.71	0.54	0.53	-0.11
15.758.00	90.50	178.50	9.167.69	-6.759.22	-709.11	6.796.03	1.29	1.28	-0.21
15.853.00	92.40	180.30	9.165.29	-6.854.17	-708.12	6.890.46	2.75	2.00	1.89
15.947.00	87.60	178.50	9.165.29	-6.948.14	-707.13	6.983.90	5.45	-5.11	-1.91
16.042.00	89.20	180.00	9.167.94	-7.043.09	-705.89	7.078.30	2.31	1.68	1.58



Phoenix Technology Services Survey Report



Company: Chevron
Project: Lea County, NM (NAD27 NME)
Site: Salado Draw 29 26 33 Fed Com
Well: 1H
Wellbore: ST01 / Job 1514333
Design: Surveys (Pace X30)

Local Co-ordinate Reference: Well 1H - Slot 1H
TVD Reference: RKB @ 3240.00usft (Pace X30)
MD Reference: RKB @ 3240.00usft (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)
16,136.00	89.90	178.90	9,168.68	-7,137.08	-704.99	7,171.78	1.39	0.74	-1.17
16,231.00	89.90	179.10	9,168.85	-7,232.06	-703.33	7,286.17	0.21	0.00	0.21
16,325.00	91.90	178.30	9,167.37	-7,326.02	-701.20	7,359.50	2.29	2.13	-0.85
16,417.00	87.60	175.00	9,167.77	-7,417.83	-695.83	7,450.38	5.89	-4.67	-3.59
Final ST01 Phoenix MWD Survey									
16,467.00	87.60	175.00	9,169.86	-7,467.59	-691.47	7,499.50	0.00	0.00	0.00
ST01 Projection to TD									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,056.00	8,004.88	63.30	-712.35	Tie In to OH Phoenix MWD Surveys
8,161.00	8,108.27	64.70	-730.62	First ST01 Phoenix MWD Survey
16,417.00	9,167.77	-7,417.83	-695.83	Final ST01 Phoenix MWD Survey
16,467.00	9,169.86	-7,467.59	-691.47	ST01 Projection to TD

Checked By: _____ Approved By: _____ Date: _____