

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

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)



HOBBS OCD

AUG 29 2016

RECEIVED

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	Local Co-ordinate Reference:	Well 1H - Slot 1H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3240.00usft (Pace X30)
Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	RKB @ 3240.00usft (Pace X30)
Well:	1H	North Reference:	Grid
Wellbore:	OH / Job 1514333	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	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	-6.82	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	Local Co-ordinate Reference:	Well 1H - Slot 1H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3240.00usft (Pace X30)
Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	RKB @ 3240.00usft (Pace X30)
Well:	1H	North Reference:	Grid
Wellbore:	OH / Job 1514333	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)	
1,657.00	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	16.35	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	



Phoenix Technology Services

Survey Report



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Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	RKB @ 3240.00usft (Pace X30)
Well:	1H	North Reference:	Grid
Wellbore:	OH / Job 1514333	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)
8,787.00	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	138.04	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	178.50	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	598.23	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



Phoenix Technology Services

Survey Report



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Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	RKB @ 3240.00usft (Pace X30)
Well:	1H	North Reference:	Grid
Wellbore:	OH / Job 1514333	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)	
11,870.00	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	Local Co-ordinate Reference:	Well 1H - Slot 1H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3240.00usft (Pace X30)
Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	RKB @ 3240.00usft (Pace X30)
Well:	1H	North Reference:	Grid
Wellbore:	OH / Job 1514333	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)
15,770.00	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 Well Number 1H
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON U.S.A. INC.	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

¹² Dedicated Acres 237.34	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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 NAD 83 Y= 372,230 LAT. 32.021212 LONG. 103.598667 ELEVATION +3213' NAD 88 PROPOSED BOTTOM HOLE LOCATION X= 726,970 NAD 27 Y= 364,818 LAT. 32.000886 LONG. 103.601161 X= 768,158 NAD 83 Y= 364,875 LAT. 32.001011 LONG. 103.601627		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 to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Cindy Herrera-Murillo</i> 9/18/14 Printed Name: Cindy Herrera-Murillo E-mail Address: Cherreramurillo@chevron.com 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: 4.30.14 Signature and Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: 15078
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CORNER COORDINATES TABLE (NAD 27)

A - Y=372364.44, X=726553.40
B - Y=372373.27, X=727875.49
C - Y=371043.84, X=726563.92
D - Y=371053.27, X=727885.85
E - Y=364535.63, X=726617.46
F - Y=364544.81, X=727938.29

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

01/20/16

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 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	Local Co-ordinate Reference:	Well 1H - Slot 1H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3240.00usft (Pace X30)
Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	RKB @ 3240.00usft (Pace X30)
Well:	1H	North Reference:	Grid
Wellbore:	ST01 / Job 1514333	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	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	15.80	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	Local Co-ordinate Reference:	Well 1H - Slot 1H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3240.00usft (Pace X30)
Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	RKB @ 3240.00usft (Pace X30)
Well:	1H	North Reference:	Grid
Wellbore:	ST01 / Job 1514333	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)
8,693.00	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	13.46	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	Local Co-ordinate Reference:	Well 1H - Slot 1H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3240.00usft (Pace X30)
Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	RKB @ 3240.00usft (Pace X30)
Well:	1H	North Reference:	Grid
Wellbore:	ST01 / Job 1514333	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)
11,978.00	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	Local Co-ordinate Reference:	Well 1H - Slot 1H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3240.00usft (Pace X30)
Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	RKB @ 3240.00usft (Pace X30)
Well:	1H	North Reference:	Grid
Wellbore:	ST01 / Job 1514333	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)	
16,136.00	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	7,266.17	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			
		+N/-S (usft)	+E/-W (usft)	Comment	
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: _____