



PHOENIX
TECHNOLOGY SERVICES

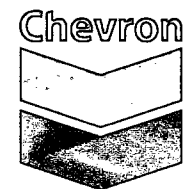
Chevron

**Lea County NM (NAD27 NME)
Salado Draw 29 26 33 Fed Com
1H - Slot 1H
Wellbore #1**

Plan: Plan #1 06-11-14

Planning Report

11 June, 2014



JUN 16 2015



Phoenix Technology Services

Planning Report



Company:	Chevron	Local Co-ordinate Reference:	Well 1H - Slot 1H
Project:	Lea County NM (NAD27 NME)	TVD Reference:	KB: 27' @ 3240.00usft (Planning)
Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	KB: 27' @ 3240.00usft (Planning)
Well:	1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 06-11-14	Database:	Compass 5000 GCR DB

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	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	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010_14	2014/06/11	7.22	59.92	48,194

Design	Plan #1 06-11-14			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	186.73

Survey Tool Program	Date	2014/06/11		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.00	16,474.41	Plan #1 06-11-14 (Wellbore #1)	PHX+MWD+IGRF	PHX+MWD+IGRF v3:standard declination



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Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
0.00	0.00	0.00	-3,240.00	0.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
100.00	0.00	0.00	-3,140.00	100.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
200.00	0.00	0.00	-3,040.00	200.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
300.00	0.00	0.00	-2,940.00	300.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
400.00	0.00	0.00	-2,840.00	400.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
500.00	0.00	0.00	-2,740.00	500.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
600.00	0.00	0.00	-2,640.00	600.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
700.00	0.00	0.00	-2,540.00	700.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
800.00	0.00	0.00	-2,440.00	800.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
900.00	0.00	0.00	-2,340.00	900.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
1,000.00	0.00	0.00	-2,240.00	1,000.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
1,100.00	0.00	0.00	-2,140.00	1,100.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
1,200.00	0.00	0.00	-2,040.00	1,200.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
1,300.00	0.00	0.00	-1,940.00	1,300.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
1,400.00	0.00	0.00	-1,840.00	1,400.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
1,500.00	0.00	0.00	-1,740.00	1,500.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
1,600.00	0.00	0.00	-1,640.00	1,600.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
1,700.00	0.00	0.00	-1,540.00	1,700.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
1,800.00	0.00	0.00	-1,440.00	1,800.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
1,900.00	0.00	0.00	-1,340.00	1,900.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
2,000.00	0.00	0.00	-1,240.00	2,000.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
2,100.00	0.00	0.00	-1,140.00	2,100.00	0.00	0.00	372,173.00	727,838.00	0.00	0.00
KOP1, Start 1°/100' Build										
2,200.00	1.00	274.10	-1,040.01	2,199.99	0.06	-0.87	372,173.06	727,837.13	0.04	1.00
2,300.00	2.00	274.10	-940.04	2,299.96	0.25	-3.48	372,173.25	727,834.52	0.16	1.00
2,400.00	3.00	274.10	-840.14	2,399.86	0.56	-7.83	372,173.56	727,830.17	0.36	1.00
2,500.00	4.00	274.10	-740.32	2,499.68	1.00	-13.92	372,174.00	727,824.08	0.64	1.00



Phoenix Technology Services

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2,600.00	5.00	274.10	-640.63	2,599.37	1.56	-21.75	372,174.56	727,816.25	1.00	1.00
2,700.00	6.00	274.10	-541.10	2,698.90	2.25	-31.31	372,175.25	727,806.69	1.44	1.00
2,800.00	7.00	274.10	-441.74	2,798.26	3.06	-42.60	372,176.06	727,795.40	1.96	1.00
2,889.70	7.90	274.10	-352.80	2,887.20	3.89	-54.20	372,176.89	727,783.80	2.49	1.00
EOB, Start hold at 7.9° Inc										
2,900.00	7.90	274.10	-342.60	2,897.40	3.99	-55.61	372,176.99	727,782.39	2.56	0.00
3,000.00	7.90	274.10	-243.54	2,996.46	4.97	-69.31	372,177.97	727,768.69	3.19	0.00
3,100.00	7.90	274.10	-144.49	3,095.51	5.95	-83.02	372,178.95	727,754.98	3.82	0.00
3,200.00	7.90	274.10	-45.44	3,194.56	6.94	-96.72	372,179.94	727,741.28	4.45	0.00
3,300.00	7.90	274.10	53.61	3,293.61	7.92	-110.42	372,180.92	727,727.58	5.07	0.00
3,400.00	7.90	274.10	152.66	3,392.66	8.90	-124.13	372,181.90	727,713.87	5.70	0.00
3,500.00	7.90	274.10	251.71	3,491.71	9.89	-137.83	372,182.89	727,700.17	6.33	0.00
3,600.00	7.90	274.10	350.77	3,590.77	10.87	-151.54	372,183.87	727,686.46	6.96	0.00
3,700.00	7.90	274.10	449.82	3,689.82	11.85	-165.24	372,184.85	727,672.76	7.59	0.00
3,800.00	7.90	274.10	548.87	3,788.87	12.84	-178.94	372,185.84	727,659.06	8.22	0.00
3,900.00	7.90	274.10	647.92	3,887.92	13.82	-192.65	372,186.82	727,645.35	8.85	0.00
4,000.00	7.90	274.10	746.97	3,986.97	14.80	-206.35	372,187.80	727,631.65	9.48	0.00
4,100.00	7.90	274.10	846.02	4,086.02	15.78	-220.06	372,188.78	727,617.94	10.11	0.00
4,200.00	7.90	274.10	945.08	4,185.08	16.77	-233.76	372,189.77	727,604.24	10.74	0.00
4,300.00	7.90	274.10	1,044.13	4,284.13	17.75	-247.46	372,190.75	727,590.54	11.37	0.00
4,400.00	7.90	274.10	1,143.18	4,383.18	18.73	-261.17	372,191.73	727,576.83	12.00	0.00
4,500.00	7.90	274.10	1,242.23	4,482.23	19.72	-274.87	372,192.72	727,563.13	12.63	0.00
4,600.00	7.90	274.10	1,341.28	4,581.28	20.70	-288.58	372,193.70	727,549.42	13.26	0.00
4,700.00	7.90	274.10	1,440.33	4,680.33	21.68	-302.28	372,194.68	727,535.72	13.89	0.00
4,800.00	7.90	274.10	1,539.39	4,779.39	22.66	-315.98	372,195.66	727,522.02	14.52	0.00
4,900.00	7.90	274.10	1,638.44	4,878.44	23.65	-329.69	372,196.65	727,508.31	15.15	0.00
5,000.00	7.90	274.10	1,737.49	4,977.49	24.63	-343.39	372,197.63	727,494.61	15.78	0.00



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5,100.00	7.90	274.10	1,836.54	5,076.54	25.61	-357.10	372,198.61	727,480.90	16.41	0.00
5,200.00	7.90	274.10	1,935.59	5,175.59	26.60	-370.80	372,199.60	727,467.20	17.04	0.00
5,300.00	7.90	274.10	2,034.64	5,274.64	27.58	-384.50	372,200.58	727,453.50	17.67	0.00
5,400.00	7.90	274.10	2,133.70	5,373.70	28.56	-398.21	372,201.56	727,439.79	18.30	0.00
5,500.00	7.90	274.10	2,232.75	5,472.75	29.55	-411.91	372,202.55	727,426.09	18.93	0.00
5,600.00	7.90	274.10	2,331.80	5,571.80	30.53	-425.62	372,203.53	727,412.38	19.56	0.00
5,700.00	7.90	274.10	2,430.85	5,670.85	31.51	-439.32	372,204.51	727,398.68	20.19	0.00
5,800.00	7.90	274.10	2,529.90	5,769.90	32.49	-453.02	372,205.49	727,384.98	20.82	0.00
5,900.00	7.90	274.10	2,628.95	5,868.95	33.48	-466.73	372,206.48	727,371.27	21.45	0.00
6,000.00	7.90	274.10	2,728.01	5,968.01	34.46	-480.43	372,207.46	727,357.57	22.08	0.00
6,100.00	7.90	274.10	2,827.06	6,067.06	35.44	-494.14	372,208.44	727,343.86	22.71	0.00
6,200.00	7.90	274.10	2,926.11	6,166.11	36.43	-507.84	372,209.43	727,330.16	23.34	0.00
6,300.00	7.90	274.10	3,025.16	6,265.16	37.41	-521.54	372,210.41	727,316.46	23.97	0.00
6,400.00	7.90	274.10	3,124.21	6,364.21	38.39	-535.25	372,211.39	727,302.75	24.60	0.00
6,500.00	7.90	274.10	3,223.26	6,463.26	39.37	-548.95	372,212.37	727,289.05	25.23	0.00
6,600.00	7.90	274.10	3,322.32	6,562.32	40.36	-562.66	372,213.36	727,275.34	25.86	0.00
6,700.00	7.90	274.10	3,421.37	6,661.37	41.34	-576.36	372,214.34	727,261.64	26.49	0.00
6,800.00	7.90	274.10	3,520.42	6,760.42	42.32	-590.06	372,215.32	727,247.94	27.12	0.00
6,900.00	7.90	274.10	3,619.47	6,859.47	43.31	-603.77	372,216.31	727,234.23	27.75	0.00
7,000.00	7.90	274.10	3,718.52	6,958.52	44.29	-617.47	372,217.29	727,220.53	28.38	0.00
7,100.00	7.90	274.10	3,817.57	7,057.57	45.27	-631.18	372,218.27	727,206.82	29.01	0.00
7,200.00	7.90	274.10	3,916.63	7,156.63	46.26	-644.88	372,219.26	727,193.12	29.64	0.00
7,300.00	7.90	274.10	4,015.68	7,255.68	47.24	-658.58	372,220.24	727,179.42	30.27	0.00
7,400.00	7.90	274.10	4,114.73	7,354.73	48.22	-672.29	372,221.22	727,165.71	30.90	0.00
7,500.00	7.90	274.10	4,213.78	7,453.78	49.20	-685.99	372,222.20	727,152.01	31.53	0.00
7,600.00	7.90	274.10	4,312.83	7,552.83	50.19	-699.70	372,223.19	727,138.30	32.16	0.00
7,700.00	7.90	274.10	4,411.88	7,651.88	51.17	-713.40	372,224.17	727,124.60	32.79	0.00



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7,800.00	7.90	274.10	4,510.94	7,750.94	52.15	-727.10	372,225.15	727,110.90	33.42	0.00
7,900.00	7.90	274.10	4,609.99	7,849.99	53.14	-740.81	372,226.14	727,097.19	34.05	0.00
8,000.00	7.90	274.10	4,709.04	7,949.04	54.12	-754.51	372,227.12	727,083.49	34.68	0.00
8,100.00	7.90	274.10	4,808.09	8,048.09	55.10	-768.22	372,228.10	727,069.78	35.31	0.00
8,200.00	7.90	274.10	4,907.14	8,147.14	56.09	-781.92	372,229.09	727,056.08	35.94	0.00
8,300.00	7.90	274.10	5,006.19	8,246.19	57.07	-795.62	372,230.07	727,042.38	36.57	0.00
8,400.00	7.90	274.10	5,105.25	8,345.25	58.05	-809.33	372,231.05	727,028.67	37.19	0.00
8,500.00	7.90	274.10	5,204.30	8,444.30	59.03	-823.03	372,232.03	727,014.97	37.82	0.00
8,600.00	7.90	274.10	5,303.35	8,543.35	60.02	-836.74	372,233.02	727,001.26	38.45	0.00
8,700.00	7.90	274.10	5,402.40	8,642.40	61.00	-850.44	372,234.00	726,987.56	39.08	0.00
8,780.23	7.90	274.10	5,481.87	8,721.87	61.79	-861.43	372,234.79	726,976.57	39.59	0.00
KOP2, Start 12°/100' Build-Turn										
8,800.00	8.06	256.99	5,501.45	8,741.45	61.57	-864.14	372,234.57	726,973.86	40.12	12.00
8,825.00	9.18	238.31	5,526.17	8,766.17	60.13	-867.55	372,233.13	726,970.45	41.95	12.00
8,850.00	11.03	224.73	5,550.79	8,790.79	57.38	-870.93	372,230.38	726,967.07	45.08	12.00
8,875.00	13.29	215.36	5,575.23	8,815.23	53.34	-874.28	372,226.34	726,963.72	49.49	12.00
8,900.00	15.80	208.78	5,599.43	8,839.43	48.01	-877.58	372,221.01	726,960.42	55.16	12.00
8,925.00	18.46	204.01	5,623.32	8,863.32	41.41	-880.83	372,214.41	726,957.17	62.10	12.00
8,950.00	21.20	200.42	5,646.83	8,886.83	33.56	-884.02	372,206.56	726,953.98	70.27	12.00
8,975.00	24.00	197.63	5,669.91	8,909.91	24.47	-887.14	372,197.47	726,950.86	79.66	12.00
9,000.00	26.84	195.39	5,692.49	8,932.49	14.18	-890.18	372,187.18	726,947.82	90.23	12.00
9,025.00	29.72	193.56	5,714.50	8,954.50	2.71	-893.13	372,175.71	726,944.87	101.97	12.00
9,050.00	32.61	192.02	5,735.89	8,975.89	-9.90	-895.98	372,163.10	726,942.02	114.83	12.00
9,075.00	35.52	190.71	5,756.60	8,996.60	-23.63	-898.74	372,149.37	726,939.26	128.79	12.00
9,100.00	38.44	189.57	5,776.57	9,016.57	-38.43	-901.38	372,134.57	726,936.62	143.80	12.00
9,125.00	41.37	188.57	5,795.75	9,035.75	-54.26	-903.90	372,118.74	726,934.10	159.82	12.00
9,150.00	44.31	187.68	5,814.08	9,054.08	-71.09	-906.30	372,101.91	726,931.70	176.81	12.00



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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
9,175.00	47.25	186.88	5,831.51	9,071.51	-88.86	-908.57	372,084.14	726,929.43	194.72	12.00
9,200.00	50.20	186.15	5,848.00	9,088.00	-107.53	-910.70	372,065.47	726,927.30	213.51	12.00
9,225.00	53.16	185.49	5,863.50	9,103.50	-127.04	-912.69	372,045.96	726,925.31	233.12	12.00
9,250.00	56.11	184.87	5,877.97	9,117.97	-147.34	-914.53	372,025.66	726,923.47	253.50	12.00
9,275.00	59.07	184.29	5,891.36	9,131.36	-168.38	-916.21	372,004.62	726,921.79	274.59	12.00
9,300.00	62.04	183.75	5,903.65	9,143.65	-190.09	-917.73	371,982.91	726,920.27	296.33	12.00
9,325.00	65.00	183.24	5,914.80	9,154.80	-212.42	-919.10	371,960.58	726,918.90	318.67	12.00
9,350.00	67.97	182.75	5,924.77	9,164.77	-235.31	-920.29	371,937.69	726,917.71	341.54	12.00
9,375.00	70.94	182.28	5,933.55	9,173.55	-258.70	-921.32	371,914.30	726,916.68	364.89	12.00
9,400.00	73.90	181.83	5,941.10	9,181.10	-282.51	-922.17	371,890.49	726,915.83	388.64	12.00
9,425.00	76.87	181.39	5,947.40	9,187.40	-306.69	-922.85	371,866.31	726,915.15	412.73	12.00
9,450.00	79.84	180.96	5,952.45	9,192.45	-331.17	-923.35	371,841.83	726,914.65	437.10	12.00
9,475.00	82.82	180.54	5,956.22	9,196.22	-355.88	-923.67	371,817.12	726,914.33	461.67	12.00
9,500.00	85.79	180.12	5,958.70	9,198.70	-380.75	-923.81	371,792.25	726,914.19	486.39	12.00
9,525.00	88.76	179.71	5,959.89	9,199.89	-405.72	-923.78	371,767.28	726,914.22	511.18	12.00
9,535.44	90.00	179.54	5,960.00	9,200.00	-416.16	-923.71	371,756.84	726,914.29	521.55	12.00
LP, 90° Inc, 179.54° Azm - Start hold										
9,600.00	90.00	179.54	5,960.00	9,200.00	-480.72	-923.19	371,692.28	726,914.81	585.59	0.00
9,700.00	90.00	179.54	5,960.00	9,200.00	-580.71	-922.39	371,592.29	726,915.61	684.81	0.00
9,800.00	90.00	179.54	5,960.00	9,200.00	-680.71	-921.59	371,492.29	726,916.41	784.02	0.00
9,900.00	90.00	179.54	5,960.00	9,200.00	-780.71	-920.78	371,392.29	726,917.22	883.24	0.00
10,000.00	90.00	179.54	5,960.00	9,200.00	-880.70	-919.98	371,292.30	726,918.02	982.45	0.00
10,100.00	90.00	179.54	5,960.00	9,200.00	-980.70	-919.18	371,192.30	726,918.82	1,081.66	0.00
10,200.00	90.00	179.54	5,960.00	9,200.00	-1,080.70	-918.37	371,092.30	726,919.63	1,180.88	0.00
10,300.00	90.00	179.54	5,960.00	9,200.00	-1,180.70	-917.57	370,992.30	726,920.43	1,280.09	0.00
10,400.00	90.00	179.54	5,960.00	9,200.00	-1,280.69	-916.77	370,892.31	726,921.23	1,379.30	0.00
10,500.00	90.00	179.54	5,960.00	9,200.00	-1,380.69	-915.97	370,792.31	726,922.03	1,478.52	0.00



Phoenix Technology Services Planning Report



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Project: Lea County NM (NAD27 NME)
Site: Salado Draw 29 26 33 Fed Com
Well: 1H
Wellbore: Wellbore #1
Design: Plan #1 06-11-14

Local Co-ordinate Reference: Well 1H - Slot 1H
TVD Reference: KB: 27' @ 3240.00usft (Planning)
MD Reference: KB: 27' @ 3240.00usft (Planning)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR DB

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
10,600.00	90.00	179.54	5,960.00	9,200.00	-1,480.69	-915.16	370,692.31	726,922.84	1,577.73	0.00
10,700.00	90.00	179.54	5,960.00	9,200.00	-1,580.68	-914.36	370,592.32	726,923.64	1,676.94	0.00
10,800.00	90.00	179.54	5,960.00	9,200.00	-1,680.68	-913.56	370,492.32	726,924.44	1,776.16	0.00
10,900.00	90.00	179.54	5,960.00	9,200.00	-1,780.68	-912.75	370,392.32	726,925.25	1,875.37	0.00
11,000.00	90.00	179.54	5,960.00	9,200.00	-1,880.67	-911.95	370,292.33	726,926.05	1,974.59	0.00
11,100.00	90.00	179.54	5,960.00	9,200.00	-1,980.67	-911.15	370,192.33	726,926.85	2,073.80	0.00
11,200.00	90.00	179.54	5,960.00	9,200.00	-2,080.67	-910.35	370,092.33	726,927.65	2,173.01	0.00
11,300.00	90.00	179.54	5,960.00	9,200.00	-2,180.66	-909.54	369,992.34	726,928.46	2,272.23	0.00
11,400.00	90.00	179.54	5,960.00	9,200.00	-2,280.66	-908.74	369,892.34	726,929.26	2,371.44	0.00
11,500.00	90.00	179.54	5,960.00	9,200.00	-2,380.66	-907.94	369,792.34	726,930.06	2,470.65	0.00
11,600.00	90.00	179.54	5,960.00	9,200.00	-2,480.65	-907.13	369,692.35	726,930.87	2,569.87	0.00
11,700.00	90.00	179.54	5,960.00	9,200.00	-2,580.65	-906.33	369,592.35	726,931.67	2,669.08	0.00
11,800.00	90.00	179.54	5,960.00	9,200.00	-2,680.65	-905.53	369,492.35	726,932.47	2,768.30	0.00
11,900.00	90.00	179.54	5,960.00	9,200.00	-2,780.64	-904.73	369,392.36	726,933.27	2,867.51	0.00
12,000.00	90.00	179.54	5,960.00	9,200.00	-2,880.64	-903.92	369,292.36	726,934.08	2,966.72	0.00
12,100.00	90.00	179.54	5,960.00	9,200.00	-2,980.64	-903.12	369,192.36	726,934.88	3,065.94	0.00
12,200.00	90.00	179.54	5,960.00	9,200.00	-3,080.63	-902.32	369,092.37	726,935.68	3,165.15	0.00
12,300.00	90.00	179.54	5,960.00	9,200.00	-3,180.63	-901.51	368,992.37	726,936.49	3,264.36	0.00
12,400.00	90.00	179.54	5,960.00	9,200.00	-3,280.63	-900.71	368,892.37	726,937.29	3,363.58	0.00
12,500.00	90.00	179.54	5,960.00	9,200.00	-3,380.62	-899.91	368,792.38	726,938.09	3,462.79	0.00
12,600.00	90.00	179.54	5,960.00	9,200.00	-3,480.62	-899.11	368,692.38	726,938.89	3,562.00	0.00
12,700.00	90.00	179.54	5,960.00	9,200.00	-3,580.62	-898.30	368,592.38	726,939.70	3,661.22	0.00
12,800.00	90.00	179.54	5,960.00	9,200.00	-3,680.61	-897.50	368,492.39	726,940.50	3,760.43	0.00
12,900.00	90.00	179.54	5,960.00	9,200.00	-3,780.61	-896.70	368,392.39	726,941.30	3,859.65	0.00
13,000.00	90.00	179.54	5,960.00	9,200.00	-3,880.61	-895.89	368,292.39	726,942.11	3,958.86	0.00
13,100.00	90.00	179.54	5,960.00	9,200.00	-3,980.60	-895.09	368,192.40	726,942.91	4,058.07	0.00
13,200.00	90.00	179.54	5,960.00	9,200.00	-4,080.60	-894.29	368,092.40	726,943.71	4,157.29	0.00



Phoenix Technology Services Planning Report



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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
13,300.00	90.00	179.54	5,960.00	9,200.00	-4,180.60	-893.49	367,992.40	726,944.51	4,256.50	0.00
13,400.00	90.00	179.54	5,960.00	9,200.00	-4,280.60	-892.68	367,892.40	726,945.32	4,355.71	0.00
13,500.00	90.00	179.54	5,960.00	9,200.00	-4,380.59	-891.88	367,792.41	726,946.12	4,454.93	0.00
13,600.00	90.00	179.54	5,960.00	9,200.00	-4,480.59	-891.08	367,692.41	726,946.92	4,554.14	0.00
13,700.00	90.00	179.54	5,960.00	9,200.00	-4,580.59	-890.27	367,592.41	726,947.73	4,653.35	0.00
13,800.00	90.00	179.54	5,960.00	9,200.00	-4,680.58	-889.47	367,492.42	726,948.53	4,752.57	0.00
13,900.00	90.00	179.54	5,960.00	9,200.00	-4,780.58	-888.67	367,392.42	726,949.33	4,851.78	0.00
14,000.00	90.00	179.54	5,960.00	9,200.00	-4,880.58	-887.87	367,292.42	726,950.13	4,951.00	0.00
14,100.00	90.00	179.54	5,960.00	9,200.00	-4,980.57	-887.06	367,192.43	726,950.94	5,050.21	0.00
14,200.00	90.00	179.54	5,960.00	9,200.00	-5,080.57	-886.26	367,092.43	726,951.74	5,149.42	0.00
14,300.00	90.00	179.54	5,960.00	9,200.00	-5,180.57	-885.46	366,992.43	726,952.54	5,248.64	0.00
14,400.00	90.00	179.54	5,960.00	9,200.00	-5,280.56	-884.65	366,892.44	726,953.35	5,347.85	0.00
14,500.00	90.00	179.54	5,960.00	9,200.00	-5,380.56	-883.85	366,792.44	726,954.15	5,447.06	0.00
14,600.00	90.00	179.54	5,960.00	9,200.00	-5,480.56	-883.05	366,692.44	726,954.95	5,546.28	0.00
14,700.00	90.00	179.54	5,960.00	9,200.00	-5,580.55	-882.25	366,592.45	726,955.75	5,645.49	0.00
14,800.00	90.00	179.54	5,960.00	9,200.00	-5,680.55	-881.44	366,492.45	726,956.56	5,744.70	0.00
14,900.00	90.00	179.54	5,960.00	9,200.00	-5,780.55	-880.64	366,392.45	726,957.36	5,843.92	0.00
15,000.00	90.00	179.54	5,960.00	9,200.00	-5,880.54	-879.84	366,292.46	726,958.16	5,943.13	0.00
15,100.00	90.00	179.54	5,960.00	9,200.00	-5,980.54	-879.04	366,192.46	726,958.96	6,042.35	0.00
15,200.00	90.00	179.54	5,960.00	9,200.00	-6,080.54	-878.23	366,092.46	726,959.77	6,141.56	0.00
15,300.00	90.00	179.54	5,960.00	9,200.00	-6,180.53	-877.43	365,992.47	726,960.57	6,240.77	0.00
15,400.00	90.00	179.54	5,960.00	9,200.00	-6,280.53	-876.63	365,892.47	726,961.37	6,339.99	0.00
15,500.00	90.00	179.54	5,960.00	9,200.00	-6,380.53	-875.82	365,792.47	726,962.18	6,439.20	0.00
15,600.00	90.00	179.54	5,960.00	9,200.00	-6,480.52	-875.02	365,692.48	726,962.98	6,538.41	0.00
15,700.00	90.00	179.54	5,960.00	9,200.00	-6,580.52	-874.22	365,592.48	726,963.78	6,637.63	0.00
15,800.00	90.00	179.54	5,960.00	9,200.00	-6,680.52	-873.42	365,492.48	726,964.58	6,736.84	0.00
15,900.00	90.00	179.54	5,960.00	9,200.00	-6,780.51	-872.61	365,392.49	726,965.39	6,836.06	0.00



Phoenix Technology Services

Planning Report



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Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
16,000.00	90.00	179.54	5,960.00	9,200.00	-6,880.51	-871.81	365,292.49	726,966.19	6,935.27	0.00
16,100.00	90.00	179.54	5,960.00	9,200.00	-6,980.51	-871.01	365,192.49	726,966.99	7,034.48	0.00
16,200.00	90.00	179.54	5,960.00	9,200.00	-7,080.50	-870.20	365,092.50	726,967.80	7,133.70	0.00
16,300.00	90.00	179.54	5,960.00	9,200.00	-7,180.50	-869.40	364,992.50	726,968.60	7,232.91	0.00
16,400.00	90.00	179.54	5,960.00	9,200.00	-7,280.50	-868.60	364,892.50	726,969.40	7,332.12	0.00
16,474.50	90.00	179.54	5,960.00	9,200.00	-7,355.00	-868.00	364,818.00	726,970.00	7,406.04	0.00
TD at 16474.50' MD										

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,100.00	2,100.00	0.00	0.00	KOP1, Start 1°/100' Build
2,889.70	2,887.20	3.89	-54.20	EOB, Start hold at 7.9° Inc
8,780.23	8,721.87	61.79	-861.43	KOP2, Start 12°/100' Build-Turn
9,535.44	9,200.00	-416.16	-923.71	LP, 90° Inc, 179.54° Azm - Start hold
16,474.50	9,200.00	-7,355.00	-868.00	TD at 16474.50' MD

Checked By: _____ Approved By: _____ Date: _____