



PHOENIX TECHNOLOGY SERVICES

HOBBSD

JAN 05 2015

30-025-41811

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Survey Calculation Sheet

Company **Chevron**
Well **Gamma Ridge 14-24-34 #1**
Field **Lea County, NM**
Rig **Ensign 153**
Phoenix Rep. **Zak Dawson**

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Correction **6.65**
Target TVL **11130**
Target Az **175.6**
Tgt. Coord.

QDT
CLT

Date	No.	DEPTH	INC.	AZM	C.L.	T.V.D.	V.S.	N/S	E/W	DLS	B./D.	BHA
Tie - In	0	0	0.00	0.00	0	0.00	0.00	0.00 N	0.00 E	0.00	0.00	
Teledrift	1	105	0.4	218.6	105	105.00	0.27	0.29 S	0.23 W	0.38	0.38	
Teledrift	2	284	0.6	227.6	179	283.99	1.30	1.41 S	1.31 W	0.12	0.11	
Teledrift	3	481	0.6	220.6	197	480.98	2.67	2.89 S	2.74 W	0.04	0.00	
Teledrift	4	659	0.2	235.6	178	658.98	3.48	3.77 S	3.61 W	0.23	0.22	
Teledrift	5	839	0.2	33.7	180	838.98	3.39	3.68 S	3.69 W	0.22	0.00	
Teledrift	6	1003	0.4	31.6	164	1002.97	2.70	2.96 S	3.23 W	0.12	0.12	
Teledrift	7	1183	0.7	357.6	180	1182.97	1.10	1.33 S	2.95 W	0.24	0.17	
Teledrift	8	1220	0.9	327.6	37	1219.96	0.61	0.85 S	3.11 W	1.23	0.54	
13-Sep	9	1377	1.11	324.82	157	1376.94	1.78	1.43 N	4.65 W	0.14	0.13	1
	10	1556	1.13	330.59	179	1555.90	4.87	4.38 N	6.52 W	0.06	0.01	
	11	1735	1.10	327.62	179	1734.87	7.99	7.37 N	8.30 W	0.04	0.02	
	12	1914	1.01	334.61	179	1913.84	10.98	10.25 N	9.90 W	0.09	0.05	
	13	2093	1.25	336.41	179	2092.81	14.30	13.46 N	11.36 W	0.14	0.13	
	14	2272	1.48	328.94	179	2271.75	18.21	17.23 N	13.33 W	0.16	0.13	
	15	2452	1.03	358.49	180	2451.71	21.90	20.84 N	14.57 W	0.43	0.25	
	16	2631	1.26	347.09	179	2630.68	25.45	24.37 N	15.06 W	0.18	0.13	
	17	2809	1.61	343.97	178	2808.62	29.84	28.68 N	16.18 W	0.20	0.20	
14-Sep	18	2988	1.16	31.19	179	2987.57	33.77	32.65 N	15.94 W	0.66	0.25	
	19	3167	1.44	27.67	179	3166.53	37.15	36.19 N	13.96 W	0.16	0.16	
	20	3347	1.86	23.82	180	3346.45	41.64	40.86 N	11.73 W	0.24	0.23	
	21	3526	1.15	64.39	179	3525.39	44.85	44.30 N	8.93 W	0.69	0.40	
	22	3705	1.52	39.68	179	3704.35	47.21	46.90 N	5.80 W	0.38	0.21	
	23	3884	1.31	46.92	179	3883.29	50.19	50.13 N	2.79 W	0.15	0.12	
	24	4063	1.35	41.19	179	4062.24	52.95	53.11 N	0.09 E	0.08	0.02	
	25	4242	1.12	41.59	179	4241.20	55.64	56.01 N	2.64 E	0.13	0.13	
	26	4421	1.42	39.47	179	4420.16	58.45	59.03 N	5.22 E	0.17	0.17	
	27	4600	2.81	86.91	179	4599.04	59.95	60.98 N	11.01 E	1.19	0.78	
15-Sep	28	4779	0.96	21.32	179	4777.95	61.20	62.61 N	15.93 E	1.43	1.03	
	29	4958	1.55	86.52	179	4956.92	62.51	64.15 N	18.90 E	0.80	0.33	
	30	5136	1.89	103.80	178	5134.84	61.56	63.60 N	24.15 E	0.35	0.19	
	31	5274	1.03	4.45	138	5272.81	62.07	64.29 N	26.46 E	1.66	0.62	
17-Sep	32	5420	1.29	356.12	146	5418.78	65.01	67.24 N	26.45 E	0.21	0.18	2
	33	5599	0.54	68.11	179	5597.76	67.28	69.57 N	27.09 E	0.69	0.42	

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	34	5778	1.32	158.51	179	5776.74	-65.56	67.96 N	28.63 E	0.80	0.44	
	35	5958	0.81	136.92	180	5956.71	-62.59	65.10 N	30.26 E	0.36	-0.28	
	36	6136	2.36	164.16	178	6134.64	-58.01	60.66 N	32.12 E	0.94	0.87	
	37	6316	1.95	167.39	180	6314.51	-51.35	54.10 N	33.80 E	0.24	-0.23	
	38	6494	1.65	161.28	178	6492.42	-45.87	48.72 N	35.28 E	0.20	-0.17	
	39	6673	1.21	166.34	179	6671.37	-41.51	44.44 N	36.56 E	0.26	-0.25	
	40	6852	1.39	167.65	179	6850.32	-37.49	40.49 N	37.47 E	0.10	0.10	
	41	7031	1.18	159.14	179	7029.27	-33.58	36.64 N	38.59 E	0.16	-0.12	
18-Sep	42	7210	1.33	164.07	179	7208.23	-29.77	32.92 N	39.81 E	0.10	0.08	
	43	7389	0.81	170.16	179	7387.20	-26.48	29.68 N	40.60 E	0.30	-0.29	
	44	7568	0.70	157.79	179	7566.18	-24.18	27.42 N	41.23 E	0.11	-0.06	
	45	7747	0.34	146.10	179	7745.18	-22.67	25.97 N	41.94 E	0.21	-0.20	
	46	7926	0.11	331.15	179	7924.18	-22.37	25.68 N	42.15 E	0.25	-0.13	
	47	8105	0.64	6.64	179	8103.17	-23.51	26.82 N	42.19 E	0.31	0.30	
	48	8284	0.95	26.95	179	8282.15	-25.75	29.14 N	42.97 E	0.23	0.17	
	49	8462	1.32	24.86	178	8460.12	-28.80	32.31 N	44.50 E	0.21	0.21	
	50	8642	1.35	313.01	180	8640.08	-32.17	35.64 N	43.83 E	0.87	0.02	
	51	8821	1.61	342.02	179	8819.02	-36.17	39.47 N	41.51 E	0.44	-0.15	
	52	9000	1.30	3.45	179	8997.97	-40.63	43.89 N	40.85 E	0.35	-0.17	
19-Sep	53	9179	1.73	27.82	179	9176.91	-44.92	48.31 N	42.24 E	0.43	0.24	
	54	9358	1.55	148.43	179	9355.87	-45.05	48.63 N	44.77 E	1.59	-0.10	
	55	9537	1.90	117.29	179	9534.79	-41.34	45.21 N	48.67 E	0.55	0.20	
21-Sep	56	9718	0.80	200.13	181	9715.75	-38.62	42.65 N	50.90 E	1.09	-0.61	3
	57	9897	0.52	192.86	179	9894.74	-36.70	40.68 N	50.29 E	0.16	-0.16	
	58	10076	0.56	68.45	179	10073.74	-36.19	40.21 N	50.92 E	0.53	0.02	
22-Sep	59	10255	0.74	32.74	179	10252.72	-37.37	41.50 N	52.36 E	0.24	0.10	
23-Sep	60	10429	1.06	43.04	174	10426.70	-39.35	43.63 N	54.07 E	0.21	0.18	4
	61	10518	1.35	22.53	89	10515.68	-40.84	45.20 N	55.03 E	0.58	0.33	
	62	10607	1.50	14.61	89	10604.66	-42.88	47.29 N	55.73 E	0.28	0.17	
	63	10652	0.86	73.86	45	10649.65	-43.50	47.96 N	56.20 E	2.87	-1.42	
	64	10697	5.88	168.23	45	10694.57	-41.28	45.79 N	57.00 E	13.35	11.16	
	65	10742	12.48	173.47	45	10738.97	-34.13	38.70 N	58.02 E	14.77	14.67	
	66	10786	18.27	171.85	44	10781.38	-22.49	27.14 N	59.54 E	13.19	13.16	
	67	10831	25.06	172.52	45	10823.17	-5.91	10.68 N	61.78 E	15.10	15.09	
	68	10876	31.24	175.99	45	10862.83	-15.29	10.43 S	63.84 E	14.20	13.73	
	69	10920	35.98	180.52	44	10899.47	-39.60	34.75 S	64.52 E	12.18	10.77	
	70	10965	40.14	180.53	45	10934.90	-67.23	62.49 S	64.27 E	9.24	9.24	
	71	11010	43.50	179.97	45	10968.43	-97.13	92.49 S	64.14 E	7.51	7.47	
	72	11055	46.81	180.30	45	11000.16	-128.94	124.39 S	64.06 E	7.37	7.36	
	73	11100	50.31	182.54	45	11029.94	-162.49	158.10 S	63.21 E	8.63	7.78	
	74	11144	53.45	183.35	44	11057.10	-196.81	192.67 S	61.42 E	7.28	7.14	
	75	11189	55.12	180.40	45	11083.37	-233.12	229.18 S	60.24 E	6.49	3.71	
	76	11234	58.55	176.98	45	11107.99	-270.72	266.82 S	61.12 E	9.93	7.62	
	77	11278	64.39	173.69	44	11129.00	-309.36	305.32 S	64.29 E	14.81	13.27	
	78	11323	69.92	174.18	45	11146.46	-350.79	346.55 S	68.67 E	12.33	12.29	
25-Sep	79	11368	72.83	173.19	45	11160.83	-393.41	388.92 S	73.36 E	6.79	6.47	5
	80	11413	75.11	175.01	45	11173.26	-436.64	431.94 S	77.80 E	6.39	5.07	

	81	11457	78.35	175.20	44	11183.36	479.45	474.60 S	81.45 E	7.38	7.36
	82	11502	81.28	175.98	45	11191.31	523.74	518.76 S	84.86 E	6.73	6.51
	83	11547	84.59	176.60	45	11196.85	568.39	563.32 S	87.74 E	7.48	7.36
	84	11592	87.57	176.15	45	11199.92	613.27	608.12 S	90.58 E	6.70	6.62
	85	11681	90.98	177.68	89	11201.05	702.23	696.97 S	95.37 E	4.20	3.83
	86	11770	92.91	178.32	89	11198.03	791.09	785.85 S	98.47 E	2.28	2.17
	87	11860	92.99	178.02	90	11193.40	880.88	875.69 S	101.34 E	0.34	0.09
	88	11949	93.08	177.39	89	11188.68	969.70	964.49 S	104.90 E	0.71	0.10
	89	12039	92.88	178.13	90	11184.00	1059.51	1054.30 S	108.42 E	0.85	0.22
	90	12128	90.11	178.03	89	11181.68	1148.39	1143.21 S	111.40 E	3.11	3.11
	91	12217	88.71	177.97	89	11182.60	1237.31	1232.15 S	114.50 E	1.57	1.57
	92	12307	88.04	178.17	90	11185.15	1327.18	1322.06 S	117.53 E	0.78	0.74
26-Sep	93	12397	86.50	177.97	90	11189.44	1417.00	1411.91 S	120.56 E	1.73	1.71
	94	12486	88.55	178.36	89	11193.28	1505.82	1500.77 S	123.41 E	2.34	2.30
	95	12576	87.74	178.65	90	11196.19	1595.66	1590.70 S	125.75 E	0.96	0.90
	96	12665	88.21	178.10	89	11199.34	1684.50	1679.60 S	128.28 E	0.81	0.53
	97	12755	88.24	176.60	90	11202.13	1774.41	1769.46 S	132.43 E	1.67	0.03
	98	12844	87.01	176.89	89	11205.82	1863.31	1858.24 S	137.48 E	1.42	1.38
	99	12934	87.23	176.23	90	11210.34	1953.18	1947.96 S	142.88 E	0.77	0.24
	100	13023	89.08	176.28	89	11213.20	2042.13	2036.72 S	148.69 E	2.08	2.08
	101	13113	89.52	174.93	90	11214.30	2132.12	2126.45 S	155.58 E	1.58	0.49
	102	13202	88.60	174.71	89	11215.76	2221.10	2215.07 S	163.62 E	1.06	1.03
	103	13292	89.69	173.22	90	11217.11	2311.05	2304.56 S	173.08 E	2.05	1.21
	104	13381	88.74	176.25	89	11218.33	2400.02	2393.17 S	181.24 E	3.57	1.07
	105	13471	87.93	176.30	90	11220.94	2489.97	2482.94 S	187.09 E	0.90	0.90
27-Sep	106	13560	90.20	175.22	89	11222.39	2578.95	2571.68 S	193.66 E	2.82	2.55
	107	13649	89.47	174.99	89	11222.65	2667.95	2660.35 S	201.26 E	0.86	0.82
	108	13739	87.96	175.71	90	11224.67	2757.92	2750.03 S	208.55 E	1.86	1.68
	109	13828	89.38	174.39	89	11226.73	2846.89	2838.67 S	216.23 E	2.18	1.60
	110	13918	88.97	175.70	90	11228.03	2936.87	2928.32 S	224.00 E	1.53	0.46
	111	14007	87.71	175.44	89	11230.61	3025.84	3017.01 S	230.87 E	1.45	1.42
	112	14097	88.63	175.44	90	11233.48	3115.79	3106.68 S	238.02 E	1.02	1.02
	113	14186	90.14	174.45	89	11234.44	3204.77	3195.33 S	245.87 E	2.03	1.70
	114	14276	88.74	175.03	90	11235.32	3294.76	3284.94 S	254.12 E	1.68	1.56
	115	14365	87.31	176.83	89	11238.38	3383.70	3373.66 S	260.43 E	2.58	1.61
	116	14455	88.46	176.31	90	11241.70	3473.62	3463.43 S	265.81 E	1.40	1.28
	117	14544	89.13	175.34	89	11243.58	3562.60	3552.18 S	272.29 E	1.32	0.75
	118	14633	90.59	173.85	89	11243.79	3651.58	3640.78 S	280.67 E	2.34	1.64
	119	14723	91.23	172.92	90	11242.36	3741.50	3730.16 S	291.04 E	1.25	0.71
	120	14813	89.75	174.79	90	11241.59	3831.45	3819.64 S	300.67 E	2.65	1.64
	121	14902	88.99	176.45	89	11242.57	3920.44	3908.37 S	307.46 E	2.05	0.85
29-Sep	122	14992	88.04	176.64	90	11244.91	4010.39	3998.17 S	312.89 E	1.08	1.06
	123	15081	88.97	175.66	89	11247.23	4099.36	4086.94 S	318.86 E	1.52	1.04
	124	15171	89.41	174.56	90	11248.50	4189.34	4176.60 S	326.53 E	1.32	0.49
	125	15260	87.32	175.19	89	11251.04	4278.30	4265.21 S	334.48 E	2.45	2.35
	126	15350	87.99	173.93	90	11254.72	4368.20	4354.72 S	343.00 E	1.58	0.74
	127	15439	89.38	173.73	89	11256.76	4457.13	4443.18 S	352.56 E	1.58	1.56

30-Sep	128	15544	91.31	172.74	105	11256.13	4562.04	4547.44 S	364.93 E	2.07	1.84	
	129	15611	93.11	171.24	67	11253.55	4628.85	4613.73 S	374.26 E	3.50	2.69	
TD	130	15663	93.11	171.24	52	11250.73	4680.62	4665.05 S	382.17 E	0.00	0.00	
					0	0.00	0.00	0.00 N	0.00 E	0.00	0.00	
					0	0.00	0.00	0.00 N	0.00 E	0.00	0.00	