



1212765



Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Cobalt Energy LLC
Well Name	Fisher "A" 1-35
Doc ID	1212765

Tops

Name	Top	Datum
Anhydrite	3104	328
Base Anhydrite	3140	292
Topeka	4075	-643
Heebner	4236	-804
Lansing	4296	-864
Muncie Creek	4413	-981
Stark	4492	-1060
BKC	4575	-1143
Pawnee	4673	-1241
Cherokee	4728	-1296
Mississippian	4970	-1538





**CONSOLIDATED**  
Oil Well Services, LLC

268438

TICKET NUMBER 46865  
LOCATION Oakley Ks  
FOREMAN Jerry Y

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8876

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-26-14	2180	Fisher 'A' 1-35	35	5	37	Cherokee
CUSTOMER <b>Coalt Energy</b>			Baskets 14 1/2" 4 1/2" Nints			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			399	Jordan L		
STATE			529-7-127	Lane R		
ZIP CODE			assist	Rob S		

JOB TYPE log string HOLE SIZE 7 7/8 HOLE DEPTH 8030 CASING SIZE & WEIGHT 5 1/2 15.5  
CASING DEPTH 4968 3/4 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT 11 / 11.2 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 42'  
DISPLACEMENT 17 1/4 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Softly meeting a rig up on Mar 18 run float control centralizers on 4, 6, 8, 10, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84, 90, 96, 102, 108, 114, 120, 126, 132, 138, 144, 150, 156, 162, 168, 174, 180, 186, 192, 198, 204, 210, 216, 222, 228, 234, 240, 246, 252, 258, 264, 270, 276, 282, 288, 294, 300, 306, 312, 318, 324, 330, 336, 342, 348, 354, 360, 366, 372, 378, 384, 390, 396, 402, 408, 414, 420, 426, 432, 438, 444, 450, 456, 462, 468, 474, 480, 486, 492, 498, 504, 510, 516, 522, 528, 534, 540, 546, 552, 558, 564, 570, 576, 582, 588, 594, 600, 606, 612, 618, 624, 630, 636, 642, 648, 654, 660, 666, 672, 678, 684, 690, 696, 702, 708, 714, 720, 726, 732, 738, 744, 750, 756, 762, 768, 774, 780, 786, 792, 798, 804, 810, 816, 822, 828, 834, 840, 846, 852, 858, 864, 870, 876, 882, 888, 894, 900, 906, 912, 918, 924, 930, 936, 942, 948, 954, 960, 966, 972, 978, 984, 990, 996, 1002, 1008, 1014, 1020, 1026, 1032, 1038, 1044, 1050, 1056, 1062, 1068, 1074, 1080, 1086, 1092, 1098, 1104, 1110, 1116, 1122, 1128, 1134, 1140, 1146, 1152, 1158, 1164, 1170, 1176, 1182, 1188, 1194, 1200, 1206, 1212, 1218, 1224, 1230, 1236, 1242, 1248, 1254, 1260, 1266, 1272, 1278, 1284, 1290, 1296, 1302, 1308, 1314, 1320, 1326, 1332, 1338, 1344, 1350, 1356, 1362, 1368, 1374, 1380, 1386, 1392, 1398, 1404, 1410, 1416, 1422, 1428, 1434, 1440, 1446, 1452, 1458, 1464, 1470, 1476, 1482, 1488, 1494, 1500, 1506, 1512, 1518, 1524, 1530, 1536, 1542, 1548, 1554, 1560, 1566, 1572, 1578, 1584, 1590, 1596, 1602, 1608, 1614, 1620, 1626, 1632, 1638, 1644, 1650, 1656, 1662, 1668, 1674, 1680, 1686, 1692, 1698, 1704, 1710, 1716, 1722, 1728, 1734, 1740, 1746, 1752, 1758, 1764, 1770, 1776, 1782, 1788, 1794, 1800, 1806, 1812, 1818, 1824, 1830, 1836, 1842, 1848, 1854, 1860, 1866, 1872, 1878, 1884, 1890, 1896, 1902, 1908, 1914, 1920, 1926, 1932, 1938, 1944, 1950, 1956, 1962, 1968, 1974, 1980, 1986, 1992, 1998, 2004, 2010, 2016, 2022, 2028, 2034, 2040, 2046, 2052, 2058, 2064, 2070, 2076, 2082, 2088, 2094, 2100, 2106, 2112, 2118, 2124, 2130, 2136, 2142, 2148, 2154, 2160, 2166, 2172, 2178, 2184, 2190, 2196, 2202, 2208, 2214, 2220, 2226, 2232, 2238, 2244, 2250, 2256, 2262, 2268, 2274, 2280, 2286, 2292, 2298, 2304, 2310, 2316, 2322, 2328, 2334, 2340, 2346, 2352, 2358, 2364, 2370, 2376, 2382, 2388, 2394, 2400, 2406, 2412, 2418, 2424, 2430, 2436, 2442, 2448, 2454, 2460, 2466, 2472, 2478, 2484, 2490, 2496, 2502, 2508, 2514, 2520, 2526, 2532, 2538, 2544, 2550, 2556, 2562, 2568, 2574, 2580, 2586, 2592, 2598, 2604, 2610, 2616, 2622, 2628, 2634, 2640, 2646, 2652, 2658, 2664, 2670, 2676, 2682, 2688, 2694, 2700, 2706, 2712, 2718, 2724, 2730, 2736, 2742, 2748, 2754, 2760, 2766, 2772, 2778, 2784, 2790, 2796, 2802, 2808, 2814, 2820, 2826, 2832, 2838, 2844, 2850, 2856, 2862, 2868, 2874, 2880, 2886, 2892, 2898, 2904, 2910, 2916, 2922, 2928, 2934, 2940, 2946, 2952, 2958, 2964, 2970, 2976, 2982, 2988, 2994, 3000, 3006, 3012, 3018, 3024, 3030, 3036, 3042, 3048, 3054, 3060, 3066, 3072, 3078, 3084, 3090, 3096, 3102, 3108, 3114, 3120, 3126, 3132, 3138, 3144, 3150, 3156, 3162, 3168, 3174, 3180, 3186, 3192, 3198, 3204, 3210, 3216, 3222, 3228, 3234, 3240, 3246, 3252, 3258, 3264, 3270, 3276, 3282, 3288, 3294, 3300, 3306, 3312, 3318, 3324, 3330, 3336, 3342, 3348, 3354, 3360, 3366, 3372, 3378, 3384, 3390, 3396, 3402, 3408, 3414, 3420, 3426, 3432, 3438, 3444, 3450, 3456, 3462, 3468, 3474, 3480, 3486, 3492, 3498, 3504, 3510, 3516, 3522, 3528, 3534, 3540, 3546, 3552, 3558, 3564, 3570, 3576, 3582, 3588, 3594, 3600, 3606, 3612, 3618, 3624, 3630, 3636, 3642, 3648, 3654, 3660, 3666, 3672, 3678, 3684, 3690, 3696, 3702, 3708, 3714, 3720, 3726, 3732, 3738, 3744, 3750, 3756, 3762, 3768, 3774, 3780, 3786, 3792, 3798, 3804, 3810, 3816, 3822, 3828, 3834, 3840, 3846, 3852, 3858, 3864, 3870, 3876, 3882, 3888, 3894, 3900, 3906, 3912, 3918, 3924, 3930, 3936, 3942, 3948, 3954, 3960, 3966, 3972, 3978, 3984, 3990, 3996, 4002, 4008, 4014, 4020, 4026, 4032, 4038, 4044, 4050, 4056, 4062, 4068, 4074, 4080, 4086, 4092, 4098, 4104, 4110, 4116, 4122, 4128, 4134, 4140, 4146, 4152, 4158, 4164, 4170, 4176, 4182, 4188, 4194, 4200, 4206, 4212, 4218, 4224, 4230, 4236, 4242, 4248, 4254, 4260, 4266, 4272, 4278, 4284, 4290, 4296, 4302, 4308, 4314, 4320, 4326, 4332, 4338, 4344, 4350, 4356, 4362, 4368, 4374, 4380, 4386, 4392, 4398, 4404, 4410, 4416, 4422, 4428, 4434, 4440, 4446, 4452, 4458, 4464, 4470, 4476, 4482, 4488, 4494, 4500, 4506, 4512, 4518, 4524, 4530, 4536, 4542, 4548, 4554, 4560, 4566, 4572, 4578, 4584, 4590, 4596, 4602, 4608, 4614, 4620, 4626, 4632, 4638, 4644, 4650, 4656, 4662, 4668, 4674, 4680, 4686, 4692, 4698, 4704, 4710, 4716, 4722, 4728, 4734, 4740, 4746, 4752, 4758, 4764, 4770, 4776, 4782, 4788, 4794, 4800, 4806, 4812, 4818, 4824, 4830, 4836, 4842, 4848, 4854, 4860, 4866, 4872, 4878, 4884, 4890, 4896, 4902, 4908, 4914, 4920, 4926, 4932, 4938, 4944, 4950, 4956, 4962, 4968, 4974, 4980, 4986, 4992, 4998, 5004, 5010, 5016, 5022, 5028, 5034, 5040, 5046, 5052, 5058, 5064, 5070, 5076, 5082, 5088, 5094, 5100, 5106, 5112, 5118, 5124, 5130, 5136, 5142, 5148, 5154, 5160, 5166, 5172, 5178, 5184, 5190, 5196, 5202, 5208, 5214, 5220, 5226, 5232, 5238, 5244, 5250, 5256, 5262, 5268, 5274, 5280, 5286, 5292, 5298, 5304, 5310, 5316, 5322, 5328, 5334, 5340, 5346, 5352, 5358, 5364, 5370, 5376, 5382, 5388, 5394, 5400, 5406, 5412, 5418, 5424, 5430, 5436, 5442, 5448, 5454, 5460, 5466, 5472, 5478, 5484, 5490, 5496, 5502, 5508, 5514, 5520, 5526, 5532, 5538, 5544, 5550, 5556, 5562, 5568, 5574, 5580, 5586, 5592, 5598, 5604, 5610, 5616, 5622, 5628, 5634, 5640, 5646, 5652, 5658, 5664, 5670, 5676, 5682, 5688, 5694, 5700, 5706, 5712, 5718, 5724, 5730, 5736, 5742, 5748, 5754, 5760, 5766, 5772, 5778, 5784, 5790, 5796, 5802, 5808, 5814, 5820, 5826, 5832, 5838, 5844, 5850, 5856, 5862, 5868, 5874, 5880, 5886, 5892, 5898, 5904, 5910, 5916, 5922, 5928, 5934, 5940, 5946, 5952, 5958, 5964, 5970, 5976, 5982, 5988, 5994, 6000, 6006, 6012, 6018, 6024, 6030, 6036, 6042, 6048, 6054, 6060, 6066, 6072, 6078, 6084, 6090, 6096, 6102, 6108, 6114, 6120, 6126, 6132, 6138, 6144, 6150, 6156, 6162, 6168, 6174, 6180, 6186, 6192, 6198, 6204, 6210, 6216, 6222, 6228, 6234, 6240, 6246, 6252, 6258, 6264, 6270, 6276, 6282, 6288, 6294, 6300, 6306, 6312, 6318, 6324, 6330, 6336, 6342, 6348, 6354, 6360, 6366, 6372, 6378, 6384, 6390, 6396, 6402, 6408, 6414, 6420, 6426, 6432, 6438, 6444, 6450, 6456, 6462, 6468, 6474, 6480, 6486, 6492, 6498, 6504, 6510, 6516, 6522, 6528, 6534, 6540, 6546, 6552, 6558, 6564, 6570, 6576, 6582, 6588, 6594, 6600, 6606, 6612, 6618, 6624, 6630, 6636, 6642, 6648, 6654, 6660, 6666, 6672, 6678, 6684, 6690, 6696, 6702, 6708, 6714, 6720, 6726, 6732, 6738, 6744, 6750, 6756, 6762, 6768, 6774, 6780, 6786, 6792, 6798, 6804, 6810, 6816, 6822, 6828, 6834, 6840, 6846, 6852, 6858, 6864, 6870, 6876, 6882, 6888, 6894, 6900, 6906, 6912, 6918, 6924, 6930, 6936, 6942, 6948, 6954, 6960, 6966, 6972, 6978, 6984, 6990, 6996, 7002, 7008, 7014, 7020, 7026, 7032, 7038, 7044, 7050, 7056, 7062, 7068, 7074, 7080, 7086, 7092, 7098, 7104, 7110, 7116, 7122, 7128, 7134, 7140, 7146, 7152, 7158, 7164, 7170, 7176, 7182, 7188, 7194, 7200, 7206, 7212, 7218, 7224, 7230, 7236, 7242, 7248, 7254, 7260, 7266, 7272, 7278, 7284, 7290, 7296, 7302, 7308, 7314, 7320, 7326, 7332, 7338, 7344, 7350, 7356, 7362, 7368, 7374, 7380, 7386, 7392, 7398, 7404, 7410, 7416, 7422, 7428, 7434, 7440, 7446, 7452, 7458, 7464, 7470, 7476, 7482, 7488, 7494, 7500, 7506, 7512, 7518, 7524, 7530, 7536, 7542, 7548, 7554, 7560, 7566, 7572, 7578, 7584, 7590, 7596, 7602, 7608, 7614, 7620, 7626, 7632, 7638, 7644, 7650, 7656, 7662, 7668, 7674, 7680, 7686, 7692, 7698, 7704, 7710, 7716, 7722, 7728, 7734, 7740, 7746, 7752, 7758, 7764, 7770, 7776, 7782, 7788, 7794, 7800, 7806, 7812, 7818, 7824, 7830, 7836, 7842, 7848, 7854, 7860, 7866, 7872, 7878, 7884, 7890, 7896, 7902, 7908, 7914, 7920, 7926, 7932, 7938, 7944, 7950, 7956, 7962, 7968, 7974, 7980, 7986, 7992, 7998, 8004, 8010, 8016, 8022, 8028, 8034, 8040, 8046, 8052, 8058, 8064, 8070, 8076, 8082, 8088, 8094, 8100, 8106, 8112, 8118, 8124, 8130, 8136, 8142, 8148, 8154, 8160, 8166, 8172, 8178, 8184, 8190, 8196, 8202, 8208, 8214, 8220, 8226, 8232, 8238, 8244, 8250, 8256, 8262, 8268, 8274, 8280, 8286, 8292, 8298, 8304, 8310, 8316, 8322, 8328, 8334, 8340, 8346, 8352, 8358, 8364, 8370, 8376, 8382, 8388, 8394, 8400, 8406, 8412, 8418, 8424, 8430, 8436, 8442, 8448, 8454, 8460, 8466, 8472, 8478, 8484, 8490, 8496, 8502, 8508, 8514, 8520, 8526, 8532, 8538, 8544, 8550, 8556, 8562, 8568, 8574, 8580, 8586, 8592, 8598, 8604, 8610, 8616, 8622, 8628, 8634, 8640, 8646, 8652, 8658, 8664, 8670, 8676, 8682, 8688, 8694, 8700, 8706, 8712, 8718, 8724, 8730, 8736, 8742, 8748, 8754, 8760, 8766, 8772, 8778, 8784, 8790, 8796, 8802, 8808, 8814, 8820, 8826, 8832, 8838, 8844, 8850, 8856, 8862, 8868, 8874, 8880, 8886, 8892, 8898, 8904, 8910, 8916, 8922, 8928, 8934, 8940, 8946, 8952, 8958, 8964, 8970, 8976, 8982, 8988, 8994, 9000, 9006, 9012, 9018, 9024, 9030, 9036, 9042, 9048, 9054, 9060, 9066, 9072, 9078, 9084, 9090, 9096, 9102, 9108, 9114, 9120, 9126, 9132, 9138, 9144, 9150, 9156, 9162, 9168, 9174, 9180, 9186, 9192, 9198, 9204, 9210, 9216, 9222, 9228, 9234, 9240, 9246, 9252, 9258, 9264, 9270, 9276, 9282, 9288, 9294, 9300, 9306, 9312, 9318, 9324, 9330, 9336, 9342, 9348, 9354, 9360, 9366, 9372, 9378, 9384, 9390, 9396, 9402, 9408, 9414, 9420, 9426, 9432, 9438, 9444, 9450, 9456, 9462, 9468, 9474, 9480, 9486, 9492, 9498, 9504, 9510, 9516, 9522, 9528, 9534, 9540, 9546, 9552, 9558, 9564, 9570, 9576, 9582, 9588, 9594, 9600, 9606, 9612, 9618, 9624, 9630, 9636, 9642, 9648, 9654, 9660, 9666, 9672, 9678, 9684, 9690, 9696, 9702, 9708, 9714, 9720, 9726, 9732, 9738, 9744, 9750, 9756, 9762, 9768, 9774, 9780, 9786, 9792, 9798, 9804, 9810, 9816, 9822, 9828, 9834, 9840, 9846, 9852, 9858, 9864, 9870, 9876, 9882, 9888, 9894, 9900, 9906, 9912, 9918, 9924, 9930, 9936, 9942, 9948, 9954, 9960, 9966, 9972, 9978, 9984, 9990, 9996, 10002, 10008, 10014, 10020, 10026, 10032, 10038, 10044, 10050, 10056, 10062, 10068, 10074, 10080, 10086, 10092, 10098, 10104, 10110, 10116, 10122, 10128, 10134, 10140, 10146, 10152, 10158, 10164, 10170, 10176, 10182, 10188, 10194, 10200, 10206, 10212, 10218, 10224, 10230, 10236, 10242, 10248, 10254, 10260, 10266, 10272, 10278, 10284, 10290, 10296, 10302, 10308, 10314, 10320, 10326, 10332, 10338, 10344, 10350, 10356, 10362, 10368, 10374, 10380, 10386, 10392, 10398, 10404, 10410, 10416, 10422, 10428, 10434, 10440, 10446, 10452, 10458, 10464, 10470, 10476, 10482, 10488, 10494, 10500, 10506, 10512, 10518, 10524, 10530, 10536, 10542, 10548, 10554, 10560, 10566, 10572, 10578, 10584, 10590, 10596, 10602, 10608, 10614, 10620, 10626, 10632, 10638, 10644, 10650, 10656, 10662, 10668, 10674, 10680, 10686, 10692, 10698, 10704, 10710, 10716, 10722, 10728, 10734, 10740, 10746, 10752, 10758, 10764, 10770, 10776, 10782, 10788, 10794, 10800, 10806, 10812, 10818, 10824, 10830, 10836, 10842, 10848, 10854, 10860, 10866, 10872, 10878, 10884, 10890, 10896, 10902, 10908, 10914, 10920, 10926, 10932, 10938, 10944, 10950, 10956, 10962, 10968, 10974, 10980, 10986, 10992, 10998, 11004, 11010, 11016, 11022, 11028, 11034, 11040, 11046, 11052, 11058, 11064, 11070, 11076, 11082, 11088, 11094, 11100, 11106, 11112, 11118, 11124, 11130, 11136, 11142, 11148, 11154, 11160, 11166, 11172, 11178, 11184, 11190, 11196, 11202, 11208, 11214, 11220, 11226, 11232, 11238, 11244, 11250, 11256, 11262, 11268, 11274, 11280, 11286, 11292, 11



## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC.**

115 S Belmont #12  
Wichita, KS 67208

ATTN: Jeff Christian

### **Fisher 'A' #1-35**

#### **35-5S-37W Cheyenne,KS**

Start Date: 2014.05.20 @ 22:15:00

End Date: 2014.05.21 @ 05:35:00

Job Ticket #: 56841                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.05.28 @ 09:43:09



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Cobalt Energy, LLC.

**35-5S-37W Cheyenne, KS**

115 S Belmont #12  
Wichita, KS 67208

**Fisher 'A' #1-35**

Job Ticket: 56841

**DST#: 1**

ATTN: Jeff Christian

Test Start: 2014.05.20 @ 22:15:00

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:56:00

Time Test Ended: 05:35:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

**Interval: 4248.00 ft (KB) To 4288.00 ft (KB) (TVD)**

Reference Elevations: 3432.00 ft (KB)

Total Depth: 4288.00 ft (KB) (TVD)

3425.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8874**

**Inside**

Press@RunDepth: 20.90 psig @ 4249.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.20

End Date:

2014.05.21

Last Calib.:

2014.05.21

Start Time: 22:16:00

End Time:

05:35:00

Time On Btm:

2014.05.21 @ 00:54:00

Time Off Btm:

2014.05.21 @ 03:28:30

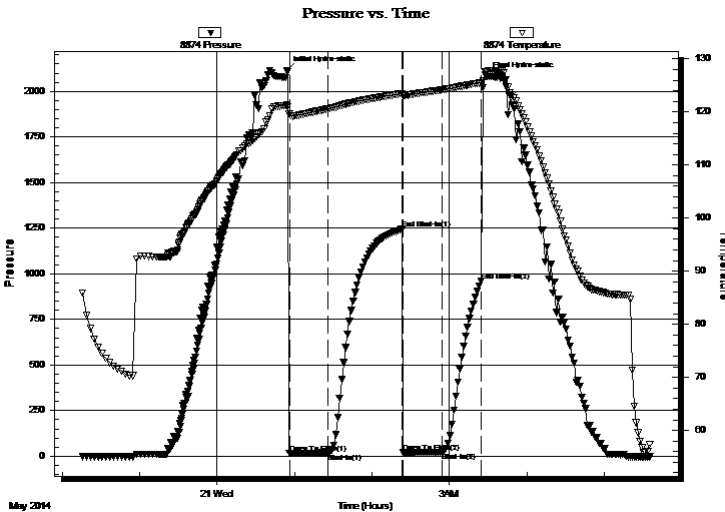
TEST COMMENT: 30 - IF- 1/4" Blow built to 3/4"

60 - IS- No Return

30 - FF- No Blow

30 - FS- No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.58	121.31	Initial Hydro-static
2	15.33	119.67	Open To Flow (1)
32	18.03	120.58	Shut-In(1)
90	1243.86	123.48	End Shut-In(1)
90	19.09	123.07	Open To Flow (2)
121	20.90	124.19	Shut-In(2)
151	958.82	125.52	End Shut-In(2)
155	2082.76	127.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100M (oil spots)	0.02

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Cobalt Energy, LLC.

**35-5S-37W Cheyenne, KS**

115 S Belmont #12  
Wichita, KS 67208

**Fisher 'A' #1-35**

Job Ticket: 56841

**DST#: 1**

ATTN: Jeff Christian

Test Start: 2014.05.20 @ 22:15:00

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:56:00

Time Test Ended: 05:35:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

**Interval: 4248.00 ft (KB) To 4288.00 ft (KB) (TVD)**

Reference Elevations: 3432.00 ft (KB)

Total Depth: 4288.00 ft (KB) (TVD)

3425.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8653 Outside**

Press@RunDepth: psig @ 4249.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.20

End Date:

2014.05.21

Last Calib.:

2014.05.21

Start Time: 22:16:00

End Time:

05:34:00

Time On Btm:

Time Off Btm:

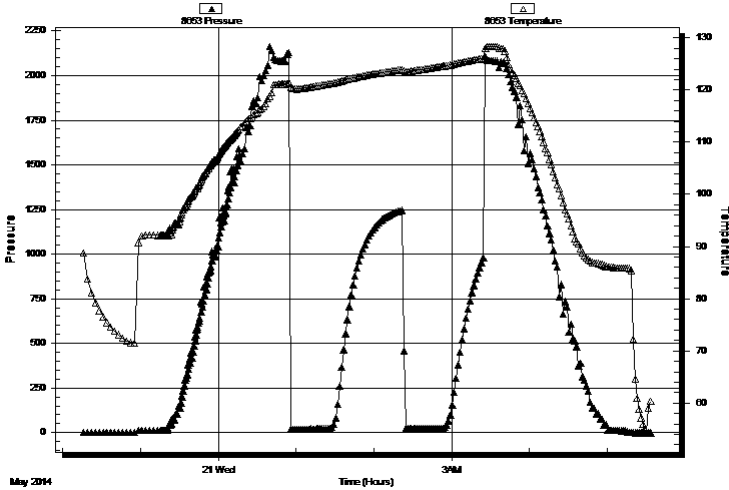
TEST COMMENT: 30 - IF- 1/4" Blow built to 3/4"

60 - IS- No Return

30 - FF- No Blow

30 - FS- No Return

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
-------------	-----------------	--------------	------------

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100M (oil spots)	0.02

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cobalt Energy, LLC.

**35-5S-37W Cheyenne,KS**

115 S Belmont #12  
Wichita, KS 67208

**Fisher 'A' #1-35**

Job Ticket: 56841

**DST#: 1**

ATTN: Jeff Christian

Test Start: 2014.05.20 @ 22:15:00

## Tool Information

Drill Pipe:	Length: 4043.00 ft	Diameter: 3.80 inches	Volume: 56.71 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 57.61 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4248.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	68.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4221.00	
Shut In Tool	5.00			4226.00	
Hydraulic tool	5.00			4231.00	
Jars	5.00			4236.00	
Safety Joint	3.00			4239.00	
Packer	5.00			4244.00	28.00 Bottom Of Top Packer
Packer	4.00			4248.00	
Stubb	1.00			4249.00	
Recorder	0.00	8653	Outside	4249.00	
Recorder	0.00	8874	Inside	4249.00	
Perforations	1.00			4250.00	
Change Over Sub	1.00			4251.00	
Drill Pipe	31.00			4282.00	
Change Over Sub	1.00			4283.00	
Bullnose	5.00			4288.00	40.00 Bottom Packers & Anchor

**Total Tool Length: 68.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy, LLC.

**35-5S-37W Cheyenne,KS**

115 S Belmont #12  
Wichita, KS 67208

**Fisher 'A' #1-35**

Job Ticket: 56841

**DST#: 1**

ATTN: Jeff Christian

Test Start: 2014.05.20 @ 22:15:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	OSM 100M (oil spots)	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbf

Num Fluid Samples: 0

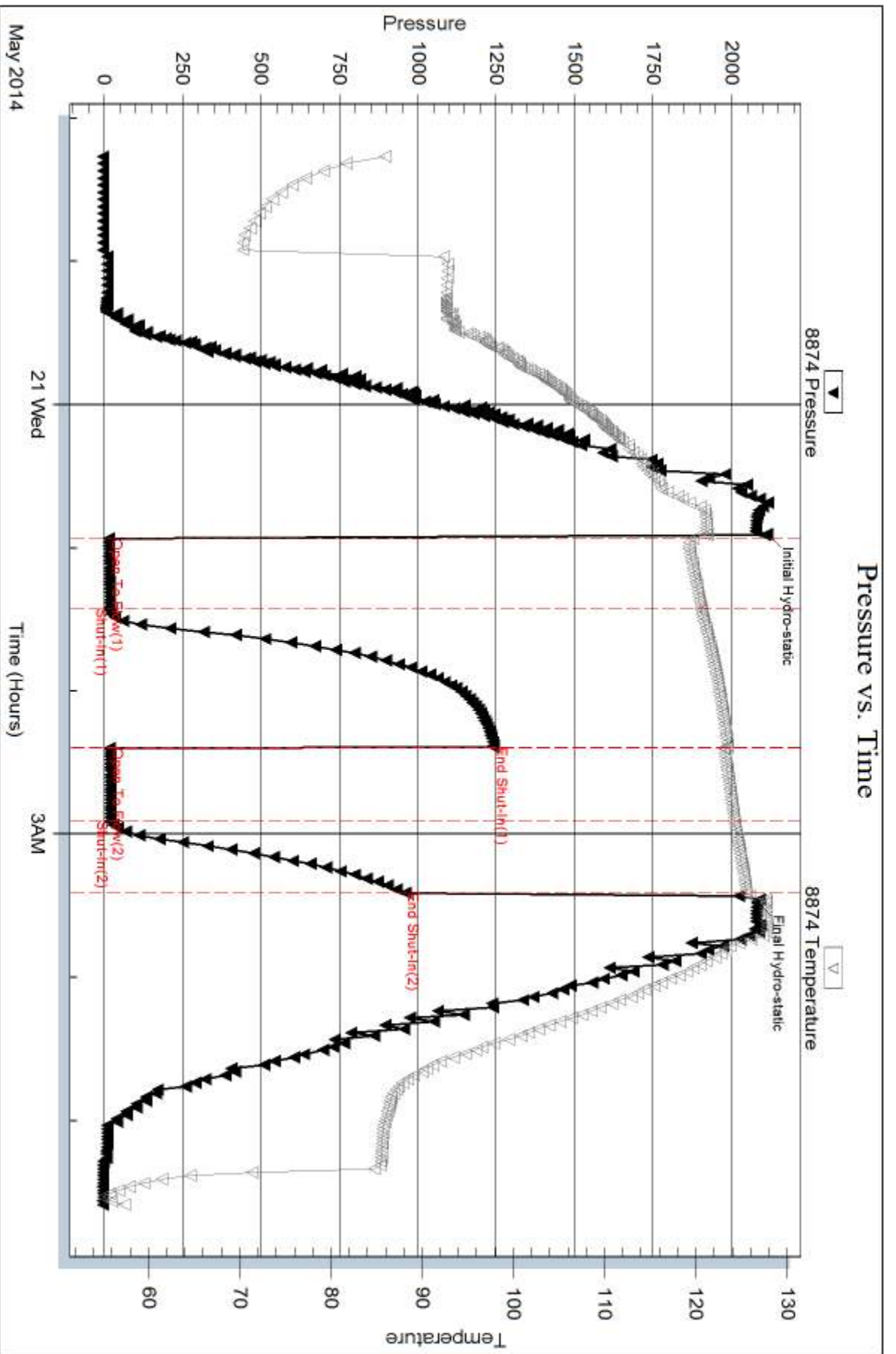
Num Gas Bombs: 0

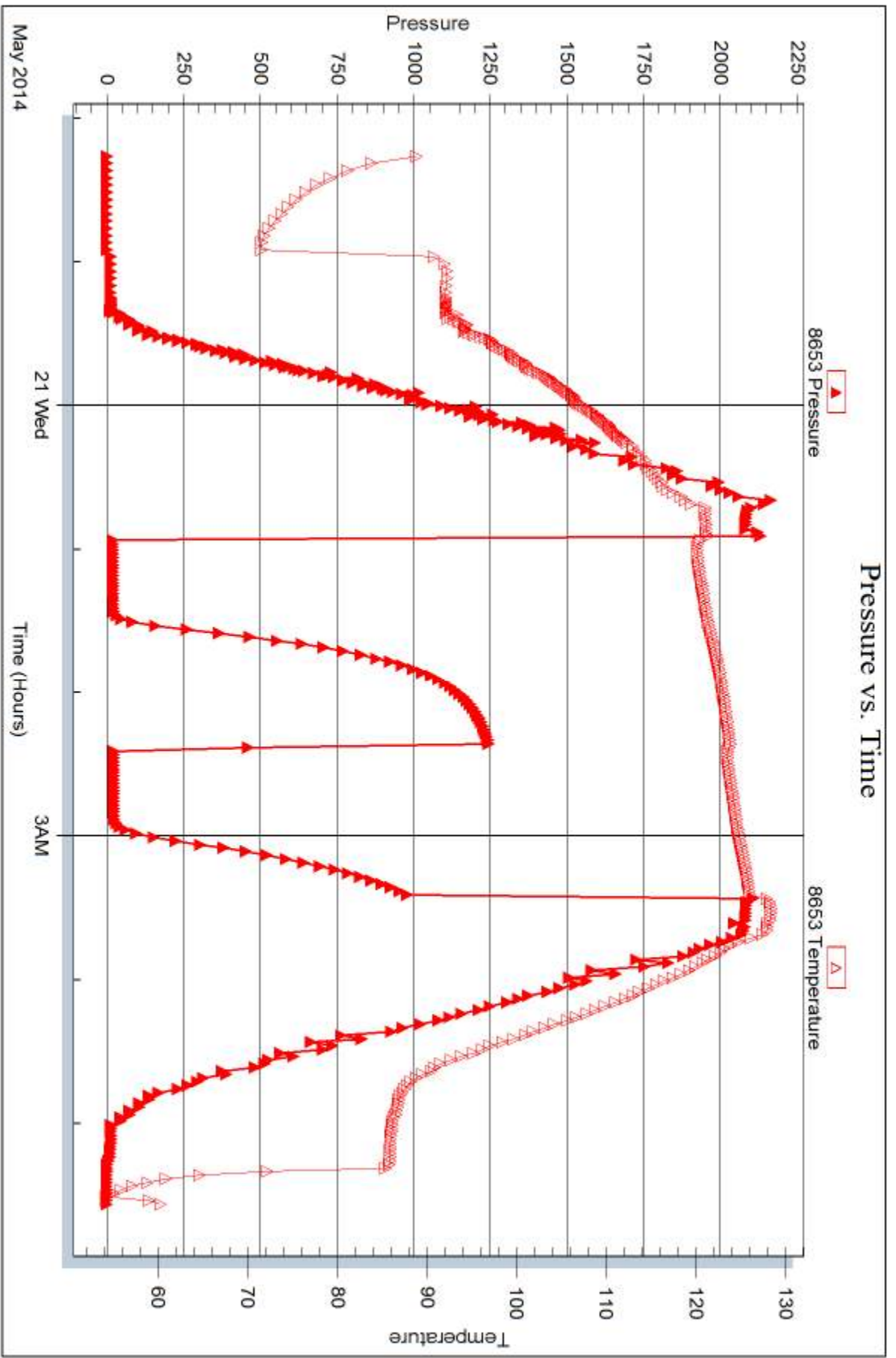
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC.**

115 S Belmont #12  
Wichita, KS 67208

ATTN: Jeff Christian

### **Fisher 'A' #1-35**

#### **35-5S-37W Cheyenne,KS**

Start Date: 2014.05.21 @ 18:04:00

End Date: 2014.05.22 @ 01:45:00

Job Ticket #: 56842                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.05.28 @ 09:41:17



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Cobalt Energy, LLC.

**35-5S-37W Cheyenne, KS**

115 S Belmont #12  
Wichita, KS 67208

**Fisher 'A' #1-35**

Job Ticket: 56842

**DST#: 2**

ATTN: Jeff Christian

Test Start: 2014.05.21 @ 18:04:00

## GENERAL INFORMATION:

Formation: **LKC "D-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:09:00

Time Test Ended: 01:45:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

**Interval: 4330.00 ft (KB) To 4398.00 ft (KB) (TVD)**

Reference Elevations: 3432.00 ft (KB)

Total Depth: 4398.00 ft (KB) (TVD)

3425.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8874**

**Inside**

Press@RunDepth: 1221.07 psig @ 4331.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.21

End Date:

2014.05.22

Last Calib.:

2014.05.22

Start Time: 18:05:00

End Time:

01:45:00

Time On Btm:

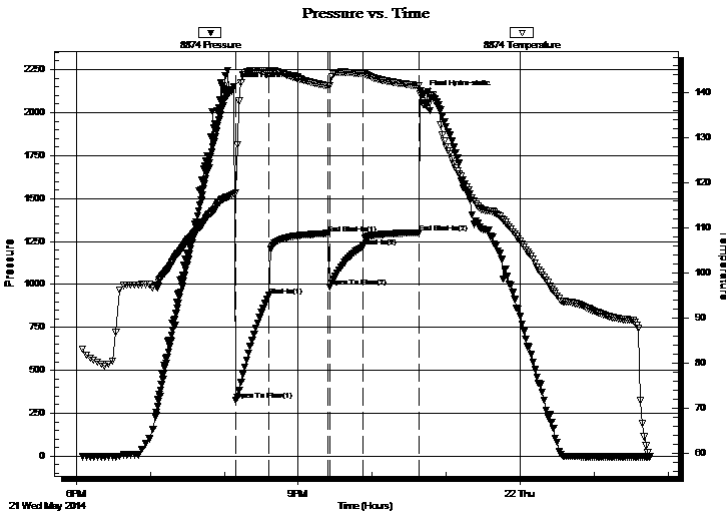
2014.05.21 @ 20:07:30

Time Off Btm:

2014.05.21 @ 22:41:00

**TEST COMMENT:** 30 - IF- BoB in 1 1/2 Min.  
45 - IS- No Return  
30 - FF- BoB in 2 1/2 Min.  
45 - FS- No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2151.33	117.59	Initial Hydro-static
2	326.37	117.76	Open To Flow (1)
29	934.99	144.95	Shut-In(1)
77	1297.35	141.57	End Shut-In(1)
78	985.43	141.69	Open To Flow (2)
105	1221.07	144.26	Shut-In(2)
150	1301.54	141.62	End Shut-In(2)
154	2106.81	137.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (Heavy) 100M	0.02
1564.00	MW 5M 95W	20.32
441.00	MW 10M 90W	6.19
315.00	MW 50M 50W	4.42
345.00	WM 10W 90M	4.84

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cobalt Energy, LLC.

**35-5S-37W Cheyenne,KS**

115 S Belmont #12  
Wichita, KS 67208

**Fisher 'A' #1-35**

Job Ticket: 56842

**DST#: 2**

ATTN: Jeff Christian

Test Start: 2014.05.21 @ 18:04:00

## Tool Information

Drill Pipe:	Length: 4140.00 ft	Diameter: 3.80 inches	Volume: 58.07 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose:	82000.00 lb
			<u>Total Volume: 58.97 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4330.00 ft			Final	80000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	68.00 ft				
Tool Length:	96.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4303.00	
Shut In Tool	5.00			4308.00	
Hydraulic tool	5.00			4313.00	
Jars	5.00			4318.00	
Safety Joint	3.00			4321.00	
Packer	5.00			4326.00	28.00 Bottom Of Top Packer
Packer	4.00			4330.00	
Stubb	1.00			4331.00	
Recorder	0.00	8653	Outside	4331.00	
Recorder	0.00	8874	Inside	4331.00	
Perforations	1.00			4332.00	
Change Over Sub	1.00			4333.00	
Drill Pipe	61.00			4394.00	
Change Over Sub	1.00			4395.00	
Bullnose	3.00			4398.00	68.00 Bottom Packers & Anchor

**Total Tool Length: 96.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Cobalt Energy, LLC.

**35-5S-37W Cheyenne,KS**

115 S Belmont #12  
Wichita, KS 67208

**Fisher 'A' #1-35**

Job Ticket: 56842

**DST#: 2**

ATTN: Jeff Christian

Test Start: 2014.05.21 @ 18:04:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

40000 ppm

Viscosity: 82.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud (Heavy) 100M	0.025
1564.00	MW 5M 95W	20.317
441.00	MW 10M 90W	6.186
315.00	MW 50M 50W	4.419
345.00	WM 10W 90M	4.839

Total Length: 2670.00 ft      Total Volume: 35.786 bbl

Num Fluid Samples: 0

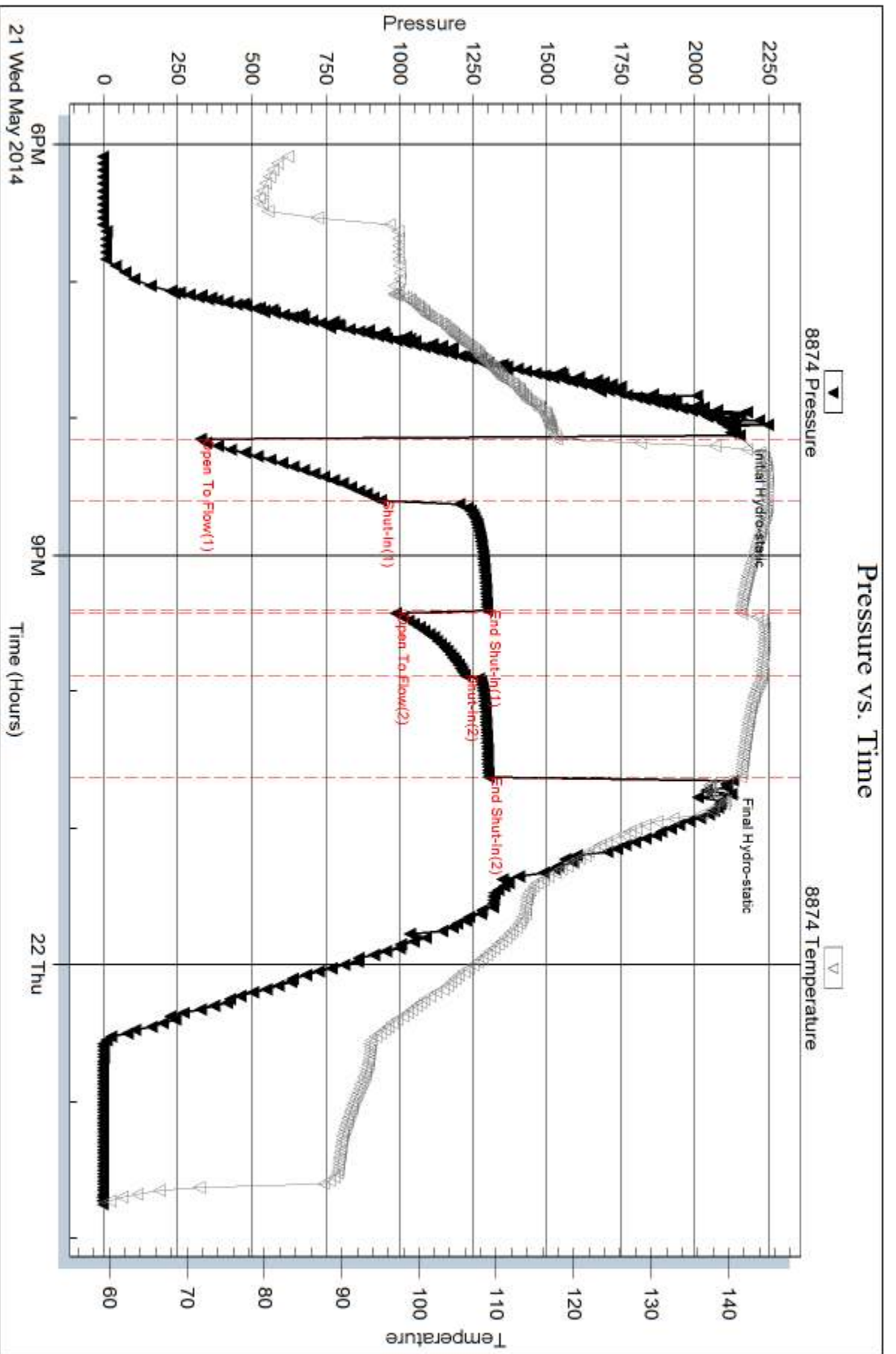
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .189 @ 65 DEG. = 40,000PPM

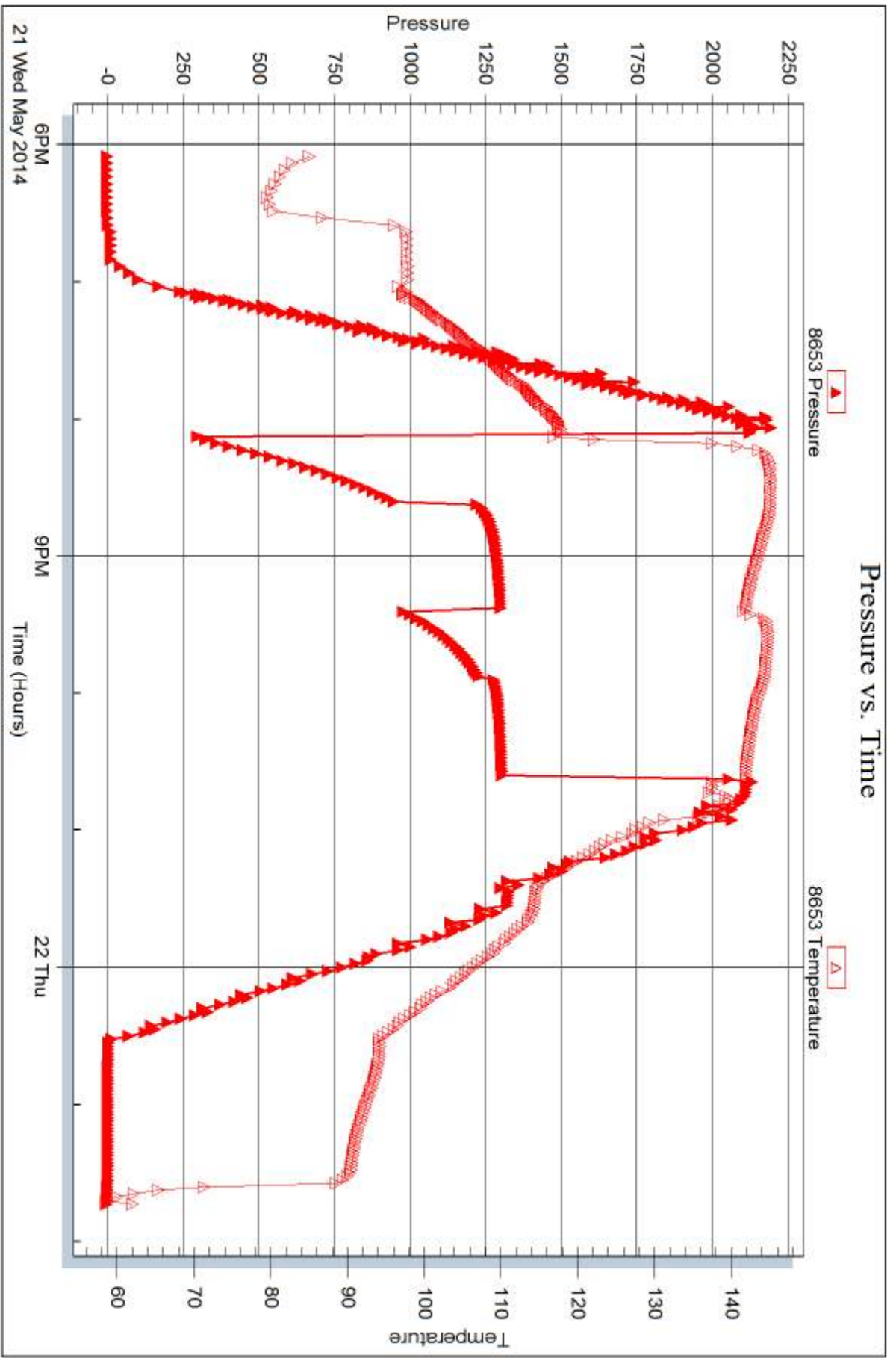


Serial #: 8653

Outside Cobalt Energy, LLC

Fisher 'A' #1-35

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 56842

Printed: 2014.05.28 @ 09:41:18



## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC.**

115 S Belmont #12  
Wichita, KS 67208

ATTN: Jeff Christian

### **Fisher 'A' #1-35**

#### **35-5S-37W Cheyenne,KS**

Start Date: 2014.05.22 @ 14:08:00

End Date: 2014.05.22 @ 21:00:00

Job Ticket #: 56843                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.05.28 @ 09:40:22



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Cobalt Energy, LLC.

**35-5S-37W Cheyenne,KS**

115 S Belmont #12  
Wichita, KS 67208

**Fisher 'A' #1-35**

Job Ticket: 56843

**DST#: 3**

ATTN: Jeff Christian

Test Start: 2014.05.22 @ 14:08:00

## GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:43:00

Time Test Ended: 21:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

**Interval: 4442.00 ft (KB) To 4496.00 ft (KB) (TVD)**

Reference Elevations: 3432.00 ft (KB)

Total Depth: 4496.00 ft (KB) (TVD)

3425.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8874**

**Inside**

Press@RunDepth: 27.35 psig @ 4443.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.22

End Date:

2014.05.22

Last Calib.:

2014.05.22

Start Time: 14:09:00

End Time:

21:00:00

Time On Btm:

2014.05.22 @ 16:42:30

Time Off Btm:

2014.05.22 @ 18:48:00

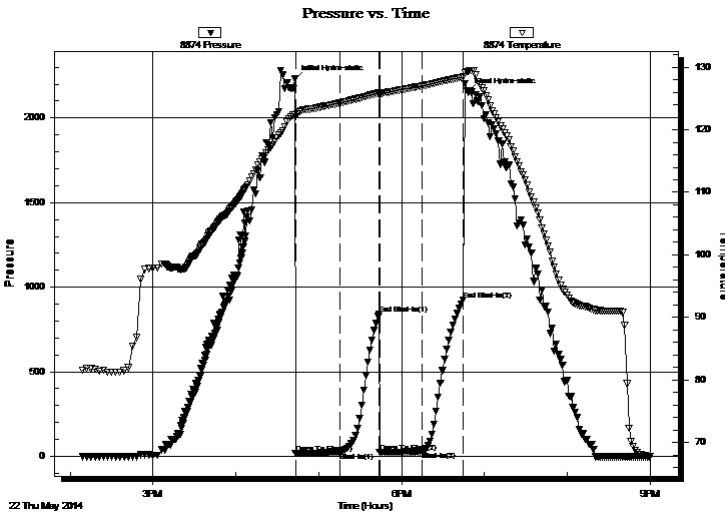
TEST COMMENT: 30 - IF- Surface Blow died in 5 min.

30 - IS- No Return

30 - FF- No Blow

30 - FS- No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2229.82	122.45	Initial Hydro-static
1	15.57	122.06	Open To Flow (1)
33	22.42	124.31	Shut-In(1)
61	843.23	125.87	End Shut-In(1)
62	22.06	125.42	Open To Flow (2)
92	27.35	127.00	Shut-In(2)
122	922.85	128.42	End Shut-In(2)
126	2152.99	129.36	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100M	0.02

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cobalt Energy, LLC.

**35-5S-37W Cheyenne,KS**

115 S Belmont #12  
Wichita, KS 67208

**Fisher 'A' #1-35**

Job Ticket: 56843

**DST#: 3**

ATTN: Jeff Christian

Test Start: 2014.05.22 @ 14:08:00

## Tool Information

Drill Pipe:	Length: 4262.00 ft	Diameter: 3.80 inches	Volume: 59.78 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 60.68 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4442.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	82.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4415.00	
Shut In Tool	5.00			4420.00	
Hydraulic tool	5.00			4425.00	
Jars	5.00			4430.00	
Safety Joint	3.00			4433.00	
Packer	5.00			4438.00	28.00 Bottom Of Top Packer
Packer	4.00			4442.00	
Stubb	1.00			4443.00	
Recorder	0.00	8653	Outside	4443.00	
Recorder	0.00	8874	Inside	4443.00	
Perforations	15.00			4458.00	
Change Over Sub	1.00			4459.00	
Drill Pipe	31.00			4490.00	
Change Over Sub	1.00			4491.00	
Bullnose	5.00			4496.00	54.00 Bottom Packers & Anchor

**Total Tool Length: 82.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy, LLC.

**35-5S-37W Cheyenne,KS**

115 S Belmont #12  
Wichita, KS 67208

**Fisher 'A' #1-35**

Job Ticket: 56843

**DST#: 3**

ATTN: Jeff Christian

Test Start: 2014.05.22 @ 14:08:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100M	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

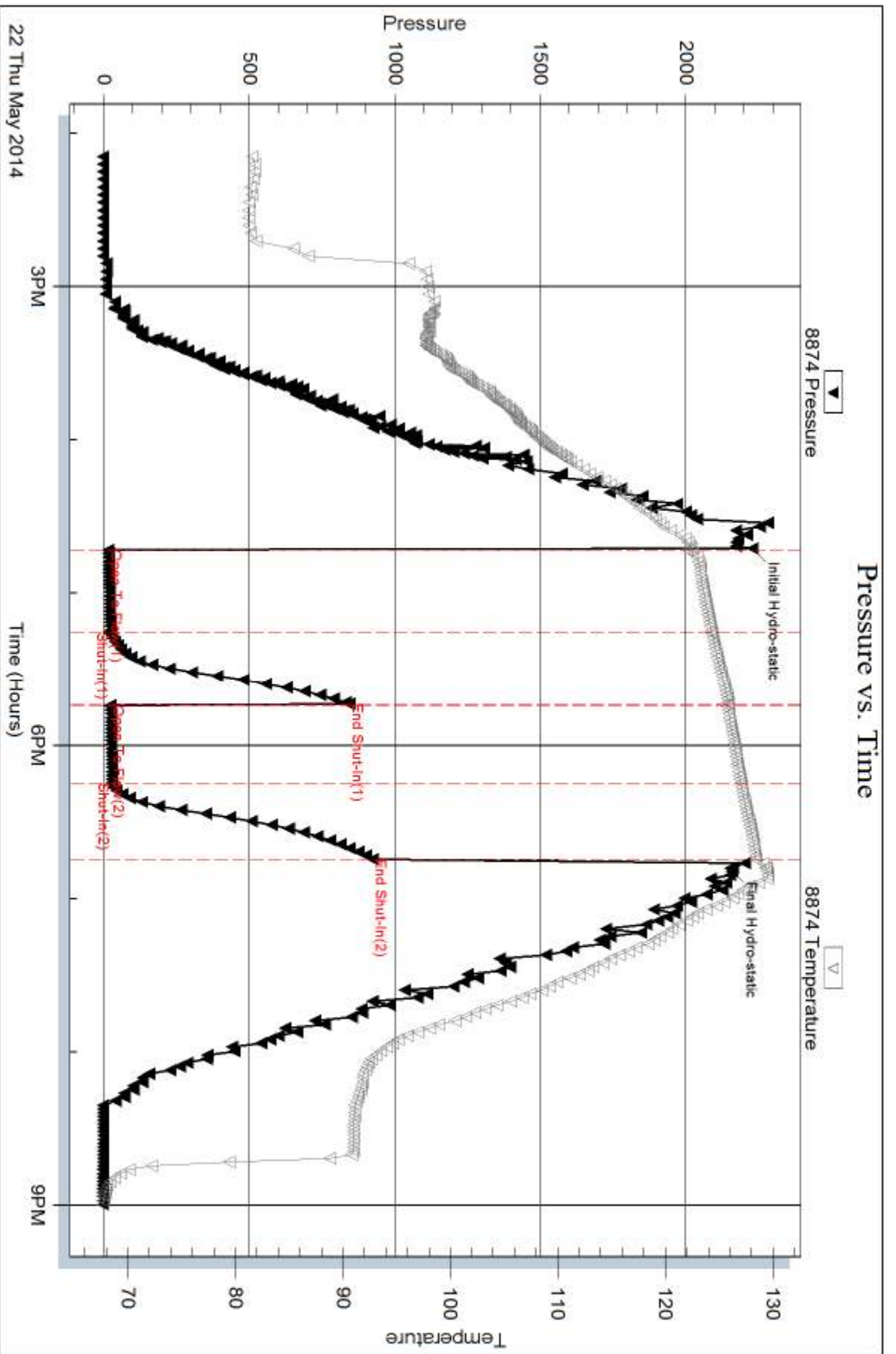
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



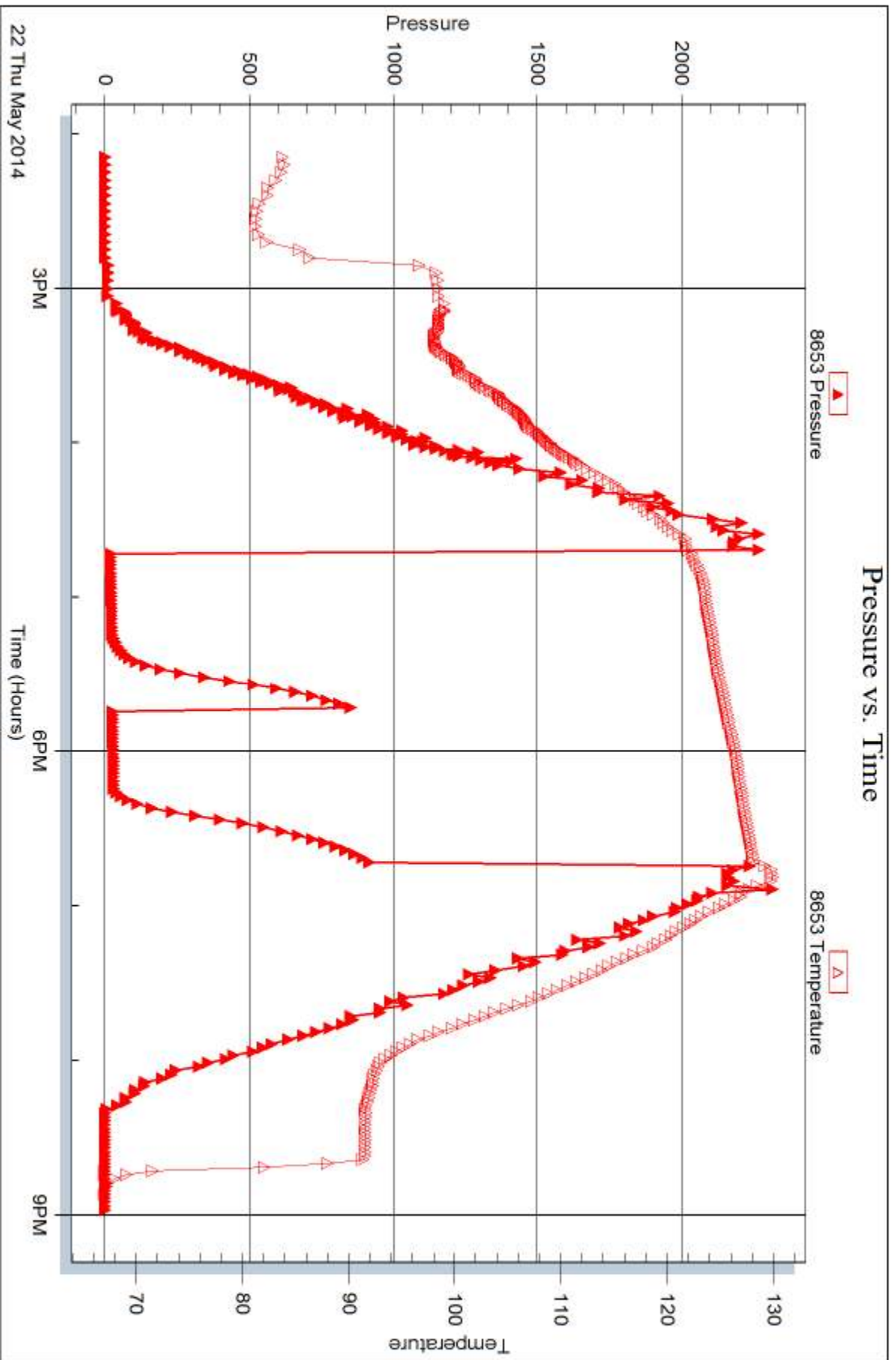


Serial #: 8653

Outside Cobalt Energy, LLC

Fisher 'A' #1-35

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 56843

Printed: 2014.05.28 @ 09:40:23



## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC.**

115 S Belmont #12  
Wichita, KS 67208

ATTN: Jeff Christian

### **Fisher 'A' #1-35**

#### **35-5S-37W Cheyenne,KS**

Start Date: 2014.05.23 @ 16:51:00

End Date: 2014.05.23 @ 23:27:00

Job Ticket #: 56844                      DST #: 4

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.05.28 @ 09:39:51



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Cobalt Energy, LLC.

**35-5S-37W Cheyenne,KS**

115 S Belmont #12  
Wichita, KS 67208

**Fisher 'A' #1-35**

Job Ticket: 56844

**DST#: 4**

ATTN: Jeff Christian

Test Start: 2014.05.23 @ 16:51:00

## GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:16:00

Time Test Ended: 23:27:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

**Interval: 4653.00 ft (KB) To 4692.00 ft (KB) (TVD)**

Reference Elevations: 3432.00 ft (KB)

Total Depth: 4692.00 ft (KB) (TVD)

3425.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8874 Inside**

Press@RunDepth: 19.30 psig @ 4654.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.23

End Date:

2014.05.23

Last Calib.:

2014.05.23

Start Time: 16:52:00

End Time:

23:27:00

Time On Btm:

2014.05.23 @ 19:15:30

Time Off Btm:

2014.05.23 @ 21:19:00

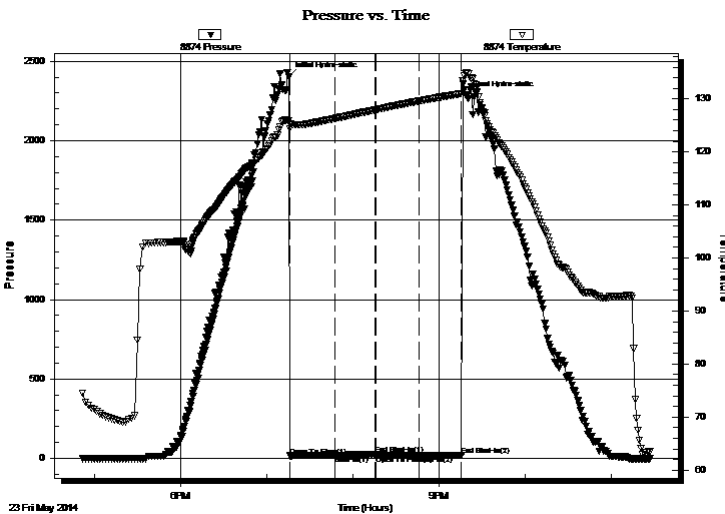
TEST COMMENT: 30 - IF- 1/8" Blow built to 1/2" then died back to 1/8"

30 - IS- No Return

30 - FF- No Blow

30 - FS- No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2401.12	125.91	Initial Hydro-static
1	15.36	124.45	Open To Flow (1)
32	18.28	126.29	Shut-In(1)
60	23.11	127.94	End Shut-In(1)
61	18.37	127.96	Open To Flow (2)
91	19.30	129.58	Shut-In(2)
120	20.51	131.00	End Shut-In(2)
124	2284.81	134.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100M	0.02

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cobalt Energy, LLC.

**35-5S-37W Cheyenne,KS**

115 S Belmont #12  
Wichita, KS 67208

**Fisher 'A' #1-35**

Job Ticket: 56844

**DST#: 4**

ATTN: Jeff Christian

Test Start: 2014.05.23 @ 16:51:00

## Tool Information

Drill Pipe:	Length: 4450.00 ft	Diameter: 3.80 inches	Volume: 62.42 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose:	74000.00 lb
			<u>Total Volume: 63.32 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4653.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	39.00 ft				
Tool Length:	67.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4626.00	
Shut In Tool	5.00			4631.00	
Hydraulic tool	5.00			4636.00	
Jars	5.00			4641.00	
Safety Joint	3.00			4644.00	
Packer	5.00			4649.00	28.00 Bottom Of Top Packer
Packer	4.00			4653.00	
Stubb	1.00			4654.00	
Recorder	0.00	8653	Outside	4654.00	
Recorder	0.00	8874	Inside	4654.00	
Perforations	1.00			4655.00	
Change Over Sub	1.00			4656.00	
Drill Pipe	30.00			4686.00	
Change Over Sub	1.00			4687.00	
Bullnose	5.00			4692.00	39.00 Bottom Packers & Anchor

**Total Tool Length: 67.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy, LLC.

**35-5S-37W Cheyenne,KS**

115 S Belmont #12  
Wichita, KS 67208

**Fisher 'A' #1-35**

Job Ticket: 56844

**DST#: 4**

ATTN: Jeff Christian

Test Start: 2014.05.23 @ 16:51:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 71.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	Mud 100M	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

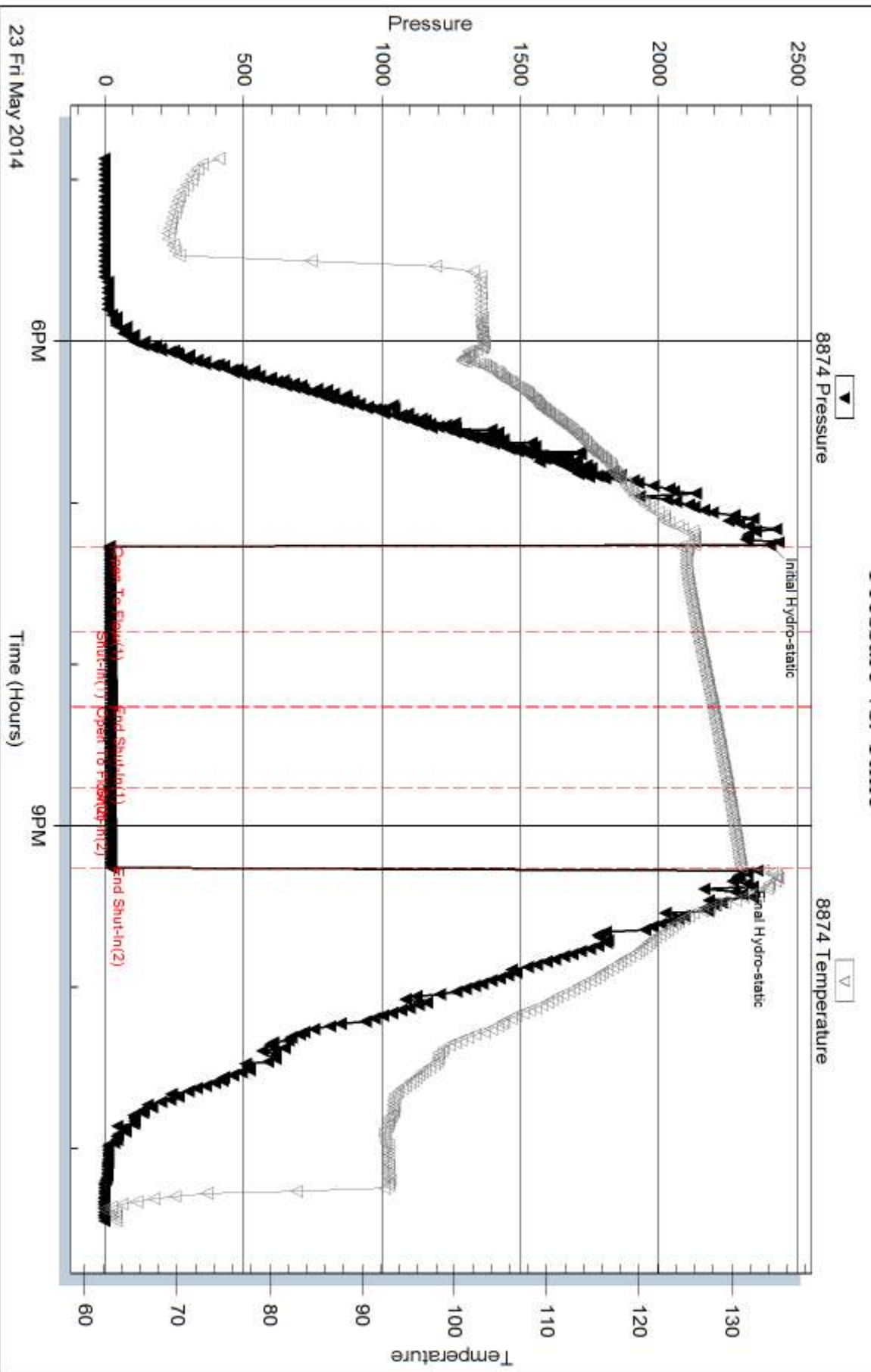
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



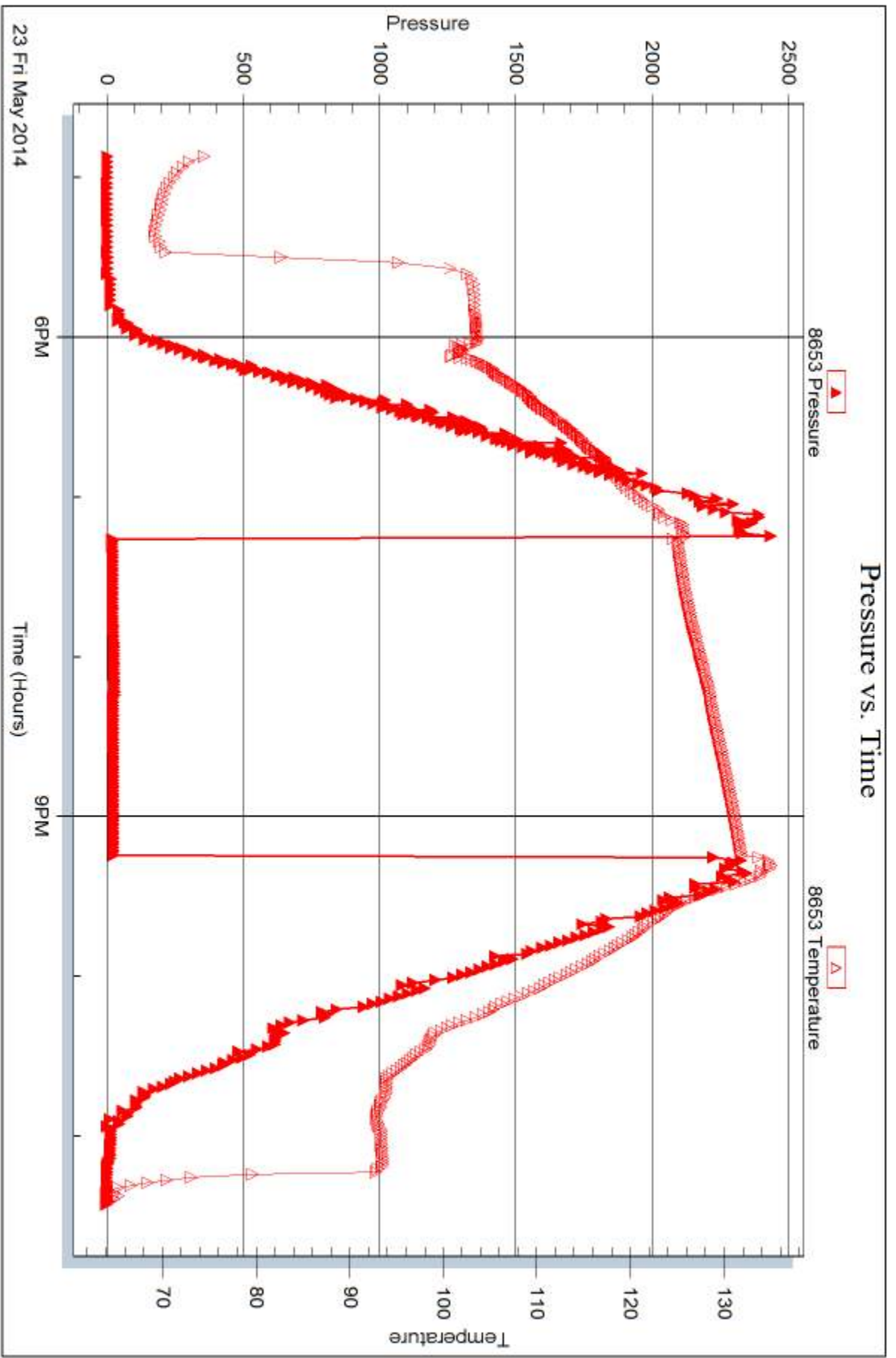


Serial #: 8653

Outside Cobalt Energy, LLC

Fisher 'A' #1-35

DST Test Number: 4



Tribble Testing, Inc

Ref. No: 56844

Printed: 2014.05.28 @ 09:39:52



## DRILL STEM TEST REPORT

Prepared For: **Cobalt Energy, LLC.**

115 S Belmont #12  
Wichita, KS 67208

ATTN: Jeff Christian

### **Fisher 'A' #1-35**

#### **35-5S-37W Cheyenne,KS**

Start Date: 2014.05.24 @ 13:40:00

End Date: 2014.05.25 @ 00:35:00

Job Ticket #: 56845                      DST #: 5

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.05.28 @ 09:38:56



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Cobalt Energy, LLC.

**35-5S-37W Cheyenne, KS**

115 S Belmont #12  
Wichita, KS 67208

**Fisher 'A' #1-35**

Job Ticket: 56845

**DST#: 5**

ATTN: Jeff Christian

Test Start: 2014.05.24 @ 13:40:00

## GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:09:00

Time Test Ended: 00:35:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

**Interval: 4773.00 ft (KB) To 4824.00 ft (KB) (TVD)**

Reference Elevations: 3432.00 ft (KB)

Total Depth: 4824.00 ft (KB) (TVD)

3425.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8874 Inside**

Press@RunDepth: 615.50 psig @ 4774.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.24

End Date:

2014.05.25

Last Calib.:

2014.05.25

Start Time: 13:41:00

End Time:

00:35:00

Time On Btm:

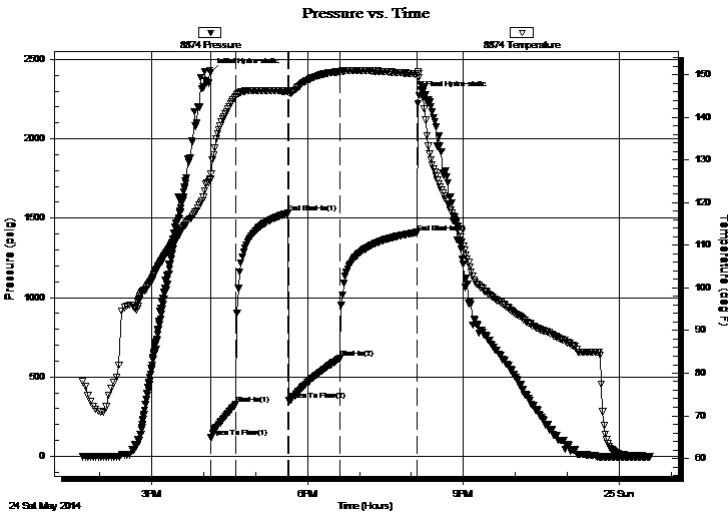
2014.05.24 @ 16:08:00

Time Off Btm:

2014.05.24 @ 20:08:30

**TEST COMMENT:** 30 - IF- BoB 3 1/2 Min.  
60 - IS- Surface Return built to 4 1/2"  
60 - FF- BoB in 9 min. Then died back to 4 1/2"  
90 - FS- No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2418.68	125.45	Initial Hydro-static
1	117.18	126.80	Open To Flow (1)
30	326.68	144.85	Shut-In(1)
90	1531.30	146.11	End Shut-In(1)
91	351.21	145.76	Open To Flow (2)
150	615.50	150.69	Shut-In(2)
238	1410.07	150.16	End Shut-In(2)
241	2272.88	150.28	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
183.00	GMCO 20G 70o 10M	0.90
1302.00	Clean Gassy Oil 30G 70o	18.26
0.00	558' GIP	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Cobalt Energy, LLC.

**35-5S-37W Cheyenne,KS**

115 S Belmont #12  
Wichita, KS 67208

**Fisher 'A' #1-35**

Job Ticket: 56845

**DST#: 5**

ATTN: Jeff Christian

Test Start: 2014.05.24 @ 13:40:00

## Tool Information

Drill Pipe:	Length: 4575.00 ft	Diameter: 3.80 inches	Volume: 64.18 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 65.08 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4773.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4746.00	
Shut In Tool	5.00			4751.00	
Hydraulic tool	5.00			4756.00	
Jars	5.00			4761.00	
Safety Joint	3.00			4764.00	
Packer	5.00			4769.00	28.00 Bottom Of Top Packer
Packer	4.00			4773.00	
Stubb	1.00			4774.00	
Recorder	0.00	8653	Outside	4774.00	
Recorder	0.00	8874	Inside	4774.00	
Perforations	11.00			4785.00	
Change Over Sub	1.00			4786.00	
Drill Pipe	32.00			4818.00	
Change Over Sub	1.00			4819.00	
Bullnose	5.00			4824.00	51.00 Bottom Packers & Anchor

**Total Tool Length: 79.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Cobalt Energy, LLC.

**35-5S-37W Cheyenne,KS**

115 S Belmont #12  
Wichita, KS 67208

**Fisher 'A' #1-35**

Job Ticket: 56845

**DST#: 5**

ATTN: Jeff Christian

Test Start: 2014.05.24 @ 13:40:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
183.00	GMCO 20G 70o 10M	0.900
1302.00	Clean Gassy Oil 30G 70o	18.264
0.00	558' GIP	0.000

Total Length: 1485.00 ft      Total Volume: 19.164 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 22 @ 70 deg = 21

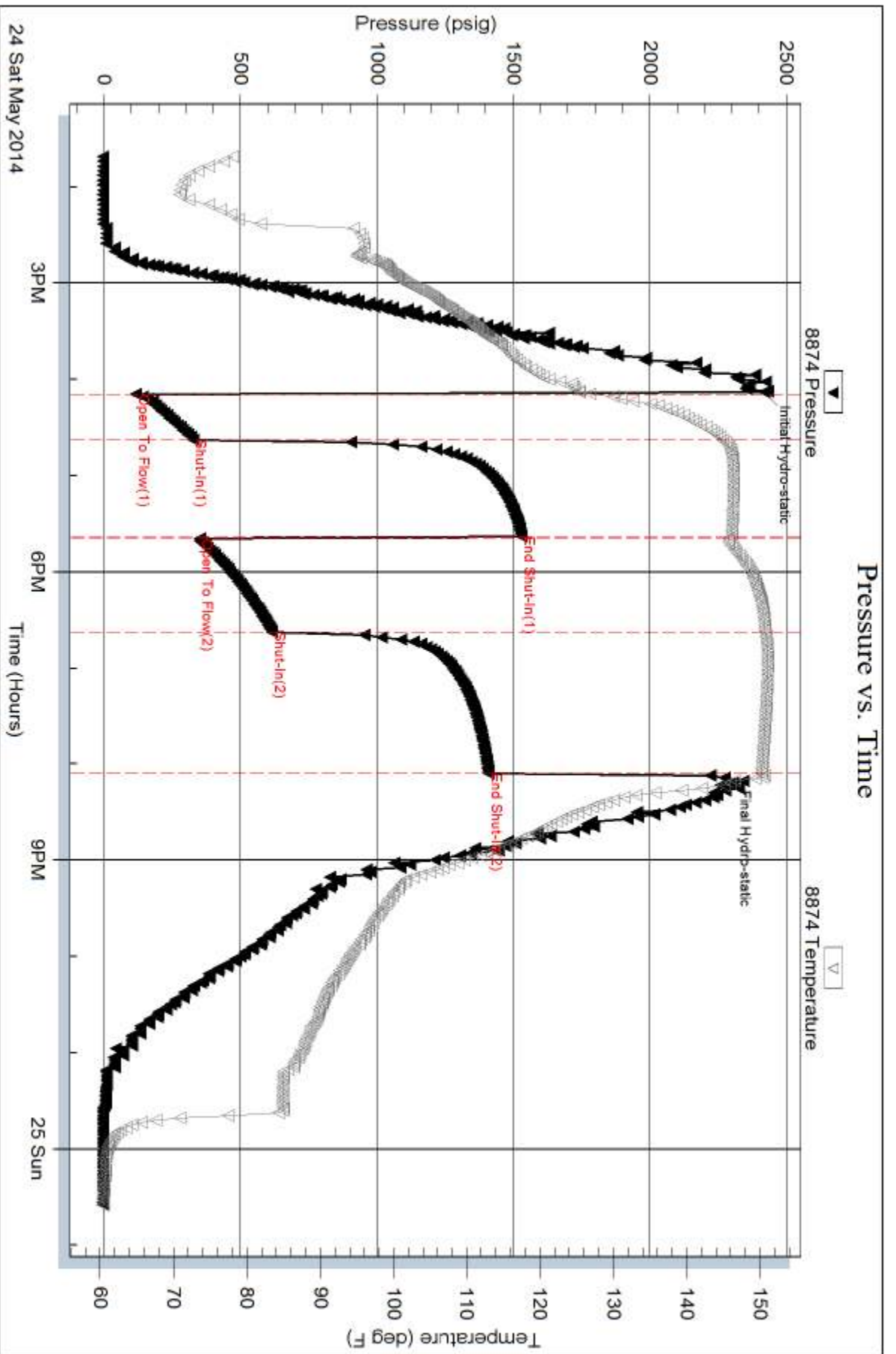
Serial #: 8874

Inside

Cobalt Energy, LLC

Fisher 'A' #1-35

DST Test Number: 5



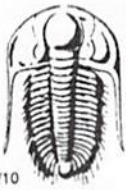
Trilobite Testing, Inc

Ref. No: 56845

Printed: 2014.05.28 @ 09:38:57







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56841

Well Name & No. Fisher 'A' #1-35 Test No. 1 Date 5-20-14  
 Company Cobalt Energy, LLC Elevation 3432 KB 3425 GL  
 Address 115 S Belmont #12 Wichita, KS 67208  
 Co. Rep / Geo. Jeff Christian Rig Murfin #8  
 Location: Sec. 35 Twp. 5S Rge. 37W Co. Cheyenne State KS

Interval Tested 4248-4288 Zone Tested Toronto  
 Anchor Length 40' Drill Pipe Run 4043 Mud Wt. 8.8  
 Top Packer Depth 4244 Drill Collars Run 183' Vis 56  
 Bottom Packer Depth 4248 Wt. Pipe Run Ø WL 64  
 Total Depth 4288 Chlorides 500 ppm System LCM 2#  
 Blow Description IF-1/4" Blow built to 3/4"  
FSI-NO Return  
FF-NO Blow  
FSI-NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>CSM</u>	<u>SPOTS</u>		<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 126 Gravity - API RW - @ - °F Chlorides - ppm  
 (A) Initial Hydrostatic 2113  Test 1250 T-On Location 9:30 PM  
 (B) First Initial Flow 15  Jars 250 T-Started 10:15 PM  
 (C) First Final Flow 18  Safety Joint 75 T-Open 12:55 AM  
 (D) Initial Shut-In 1243  Circ Sub \_\_\_\_\_ T-Pulled 3:25 AM  
 (E) Second Initial Flow 19  Hourly Standby \_\_\_\_\_ T-Out 5:35 AM  
 (F) Second Final Flow 20  Mileage 128 RT 198.40 Comments \_\_\_\_\_  
 (G) Final Shut-In 958  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2082  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total 1773.40  
 Total 1773.40  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1773.40

Approved By \_\_\_\_\_ Our Representative

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56842

Well Name & No. Fisher 'A' #1-35 Test No. 2 Date 5-21-14  
 Company Cobalt Energy, LLC. Elevation 3432 KB 3425 GL  
 Address 115 S Belmont #12 Wichita, KS 67208  
 Co. Rep / Geo. Jeff Christian Rig Murfin #8  
 Location: Sec. 35 Twp. 5S Rge. 37W Co. Cheyenne State KS

Interval Tested 4330-4398 Zone Tested LKC "D-G"  
 Anchor Length 68' Drill Pipe Run 4140' Mud Wt. 8.5  
 Top Packer Depth 4326 Drill Collars Run 183' Vis 82  
 Bottom Packer Depth 4330 Wt. Pipe Run 0 WL 6.8  
 Total Depth 4398 Chlorides 500 ppm System LCM 2#  
 Blow Description IF-BoB in 1 1/2 min.  
IST-NO Return  
FF-BoB in 2 1/2 min.  
FSI-NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>345</u>	<u>WM</u>		<u>100</u>	<u>90</u>	
<u>315</u>	<u>MW</u>		<u>50</u>	<u>50</u>	
<u>441</u>	<u>MW</u>		<u>90</u>	<u>10</u>	
<u>1564</u>	<u>MW</u>		<u>95</u>	<u>5</u>	
<u>5'</u>	<u>Mud (heavy)</u>			<u>100</u>	

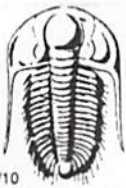
Rec Total 2670' BHT 142 Gravity - API RW .189 @ 65 °F Chlorides 40,000 ppm

(A) Initial Hydrostatic <u>2151</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>6:00 PM</u>
(B) First Initial Flow <u>326</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>6:04 PM</u>
(C) First Final Flow <u>934</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>8:08 PM</u>
(D) Initial Shut-In <u>1297</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>10:38 PM</u>
(E) Second Initial Flow <u>985</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1:45 AM</u>
(F) Second Final Flow <u>1221</u>	<input checked="" type="checkbox"/> Mileage <u>128 RT</u> 196.40	Comments
(G) Final Shut-In <u>1301</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2106</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1773.40</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1773.40</u>	

Approved By \_\_\_\_\_ Our Representative

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56843

Well Name & No. Fisher 'A' #1-35 Test No. 3 Date 5-22-14  
 Company Cobalt Energy, LLC Elevation 3432 KB 3425 GL  
 Address 115 S Belmont #12 Wichita, KS 67208  
 Co. Rep / Geo. Jeff Christian Rig Murfin #8  
 Location: Sec. 35 Twp. 5S Rge. 37W Co. Cheyenne State KS

Interval Tested 4442-4496 Zone Tested LKC "J"  
 Anchor Length 54' Drill Pipe Run 4262' Mud Wt. 9.2  
 Top Packer Depth 4438 Drill Collars Run 183' Vis 70  
 Bottom Packer Depth 4442 Wt. Pipe Run 0 WL 6.4  
 Total Depth 4496 Chlorides 700 ppm System LCM 5#  
 Blow Description IF - Surface Blow direct in 5 min.  
ISI - NO Return  
FF - NO Blow  
FSI - NO Return

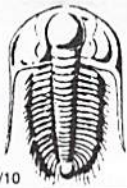
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 128 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>2229</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1:45 PM</u>
(B) First Initial Flow <u>15</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2:08 PM</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>4:45 PM</u>
(D) Initial Shut-In <u>843</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>6:45 PM</u>
(E) Second Initial Flow <u>22</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>9:00 PM</u>
(F) Second Final Flow <u>27</u>	<input checked="" type="checkbox"/> Mileage <u>128 RT</u> 196.40	Comments
(G) Final Shut-In <u>922</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2152</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>300</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>300</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>300</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>300</u>	<input type="checkbox"/> Day Standby	Total <u>1773.40</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1773.40</u>	

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56844

4/10

Well Name & No. Fisher 'A' #1-35 Test No. 4 Date 5-23-14  
 Company Cobalt Energy, LLC Elevation 3432 KB 3425 GL  
 Address 115 S Belmont #12 Wichita, KS 67208  
 Co. Rep / Geo. Jeff Christian Rig Murfin #8  
 Location: Sec. 35 Twp. 5S Rge. 37W Co. Cheyenne State KS

Interval Tested 4653-4692 Zone Tested Pawnee  
 Anchor Length 39' Drill Pipe Run 445.0' Mud Wt. 9.3  
 Top Packer Depth 4649 Drill Collars Run 183' Vis 21  
 Bottom Packer Depth 4653 Wt. Pipe Run 0 WL 6.4  
 Total Depth 4692 Chlorides 800 ppm System LCM 4#  
 Blow Description IF - 1/8" Blow built to 1/2" then died back to 1/8"  
IST - No Return  
FF - No Blow  
FSL - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>1000</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 131 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2401</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>4:40 PM</u>
(B) First Initial Flow <u>15</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>4:51 PM</u>
(C) First Final Flow <u>18</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>7:17 PM</u>
(D) Initial Shut-In <u>23</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>9:17 PM</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>11:30 PM</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>128RT</u> 198.40	Comments
(G) Final Shut-In <u>20</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2284</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1773.40</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1773.40</u>	

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56845

4/10

Well Name & No. Fisher 'A' #1-35 Test No. 5 Date 5-24-14  
 Company Cobalt Energy, LLC Elevation 3432 KB 3425 GL  
 Address 115 S Belmont #12 Wichita, KS 67208  
 Co. Rep / Geo. Jeff Christian Rig Murfin #8  
 Location: Sec. 35 Twp. 5S Rge. 37W Co. Cheyeme State KS

Interval Tested 4773-4824 Zone Tested Cherokee  
 Anchor Length 51 Drill Pipe Run 4575' Mud Wt. 9.4  
 Top Packer Depth 4769 Drill Collars Run 183' Vis 59  
 Bottom Packer Depth 4773 Wt. Pipe Run Ø WL 8.2  
 Total Depth 4824 Chlorides 6000 ppm System LCM 4#

Blow Description IF - BoB in 3 1/2 min  
ISI - Surface Return built to 4 1/2"  
FF - BoB in 9 min. Then diled back to 4 1/2"  
FST - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1302</u>	<u>Clean Gassy Oil</u>	<u>30</u>	<u>70</u>		
<u>183</u>	<u>GMO</u>	<u>20</u>	<u>70</u>		<u>10</u>
<u>558</u>	<u>GIP</u>	<u>100</u>			

Rec Total 1485 BHT 1500 Gravity 21 API RW -@ - ° F Chlorides - ppm

(A) Initial Hydrostatic 2418  Test 1250 T-On Location 1:30 PM  
 (B) First Initial Flow 117  Jars 250 T-Started 1:40 PM  
 (C) First Final Flow 326  Safety Joint 75 T-Open 4:08 PM  
 (D) Initial Shut-In 1531  Circ Sub \_\_\_\_\_ T-Pulled 8:08 PM  
 (E) Second Initial Flow 351  Hourly Standby \_\_\_\_\_ T-Out 12:34 AM  
 (F) Second Final Flow 615  Mileage 128 RT 198.40 Comments Loaded tools  
 (G) Final Shut-In 1410  Sampler \_\_\_\_\_ at end of test  
 (H) Final Hydrostatic 2272  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1773.40  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1773.40

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 600  
 Final Shut-In 910

Approved By \_\_\_\_\_ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# ALLIED OIL & GAS SERVICES, LLC 005474

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley, Ky

DATE <u>5/17/14</u>	SEC <u>35</u>	TWP. <u>5</u>	RANGE <u>37</u>	CALLED OUT	ON LOCATION	JOB START <u>2:00pm</u>	JOB FINISH <u>2:30pm</u>
LEASE <u>Fisher A</u> WELL # <u>1-35</u>		LOCATION <u>Brewster NTO CL 3 1/2 W</u>		COUNTY <u>Chapman</u>	STATE <u>KY</u>		
OLD OR NEW (Circle one) <u>NEW</u>				N = N into			

CONTRACTOR Manifield  
 TYPE OF JOB Squeeze  
 HOLE SIZE 8 5/8 T.D. \_\_\_\_\_  
 CASING SIZE 8 5/8 DEPTH 386'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE 4 1/2 DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_

OWNER Same  
 CEMENT AMOUNT ORDERED 50 Com 190 cc  
 COMMON 50 @ 17.90 n/c  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL \_\_\_\_\_ @ \_\_\_\_\_  
 CHLORIDE 1 @ 6.40 n/c  
 ASC \_\_\_\_\_ @ \_\_\_\_\_

**EQUIPMENT**

PUMP TRUCK CEMENTER Alan Ryan  
 # 423-881 HELPER Lakene Wertz  
 BULK TRUCK # 341 DRIVER Enrique (Tues)  
 BULK TRUCK # \_\_\_\_\_ DRIVER \_\_\_\_\_

Material Total \_\_\_\_\_ n/c  
 HANDLING @ 2.40 n/c  
 MILEAGE 260 n/c  
 TOTAL \_\_\_\_\_

**REMARKS:**  
 coal hole - talk date 1 1/4 BBL me 400  
 Run Drill Pipe to 403 FT. MAX  
 50 SK Com & Squeeze to 300 PSI  
 w/ 2 BBL H<sub>2</sub>O  
 Date 1 1/4 BBL me 400

**SERVICE**

DEPTH OF JOB 386'  
 PUMP TRUCK CHARGE \_\_\_\_\_ n/c  
 EXTRA FOOTAGE @ \_\_\_\_\_  
 MILEAGE 50 @ 3.20 n/c  
 MANIFOLD @ \_\_\_\_\_  
 Lite Vehicle 50 @ 4.40 n/c  
 TOTAL n/c

CHARGE TO: Cobalt Energy  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 TOTAL \_\_\_\_\_

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Rodney Farr  
 SIGNATURE Rodney Farr

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES n/c  
 DISCOUNT 0% IF PAID IN 30 DAYS



# Jeff Christian

## PETROLEUM GEOLOGIST

Wichita, Kansas

### GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

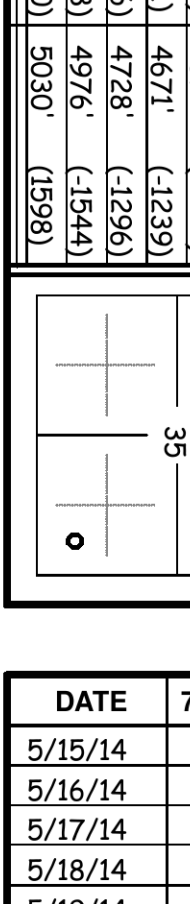
OPERATOR: **COLBALT ENERGY LLC**  
 LEASE: **FISHER A # 1-135**  
 LOCATION: **660 FSL & 660' FEL**

SEC: **35** TWP: **5 S** RING: **37 W**  
 COUNTY: **CHEYENNE** STATE: **KANSAS**  
 FIELD: **WILDCAT**  
 APL: **15-023-21396**

CONTRACTOR: **MURKIN DRILLING CO.** P.O. NO. **8**  
 DRILLING STARTED: **09/15/2014** COMPLETED: **09/25/2014**  
 MUD DISPOSED: **3362'** MUD TYPE: **CHEMICAL**  
 DRILLING TIME: **LEFT FROM 4000'** TO **RTD**  
 SAMPLES OBTAINED FROM: **4000'** TO **RTD**  
 SAMPLES EXAMINED FROM: **4000'** TO **RTD**  
 GEOLOGICAL SUPERVISION FROM: **4000'** TO **RTD**

MEASUREMENTS FROM: **KB**  
 CASING RECORD  
 CONDUIT: **NONE**  
 SURFACE: **8.5/60 @ 388'**  
 W/ 2/95 SX @ **4888'**  
 PRODUCTION: **1 1/2" @ 4888'**

FORMATION NAME LOG DATE TOP DATUM TOP SAMPLE  
 ANHYDRITE 3104' (-328) 3103' (-329)  
 TOPEKA 4075' (-643) 4072' (-640)  
 HEEBNER 4236' (-804) 4238' (-806)  
 LANSING 4296' (-864) 4299' (-863)  
 STARBUCK 4494' (-1062) 4492' (-1060)  
 PAWNEE 4675' (-1143) 4674' (-1142)  
 CHEROKEE 4728' (-1296) 4728' (-1296)  
 MISSISSIPPIAN 4970' (-1538) 4976' (-1544)  
 MUD DEPTH 5032' (-1600) 5030' (-1598)



DATE	7:00 AM DEPTH	REMARKS
5/15/14	MIRT	SPUD 4:30 pm
5/16/14	388'	WOC dev. 1 deg.
5/17/14	416'	Ran Cement Bond Log. Spotted 50 sx Cement @ Base of Surface Pipe
5/18/14	1120'	DRLG
5/19/14	2983'	DRLG
5/20/14	4078'	DRLG dev. 1 deg. @ 4000'
5/21/14	4288'	TIH after DST # 1
5/22/14	4438'	DRLG
5/23/14	4590'	DRLG
5/24/14	4749'	DRLG
5/25/14	4860'	DRLG. RTD 5030' @ 1:30 pm dev. 2 1/4 deg. Finish Logging @ 10:00 pm

**Remarks**  
 5 1/2" production casing set to further test the Cherokee formation.  
 Electric log measurements correlate about even to 1' low compared to rotary measurements.  
 Samples deposited at the Kansas Geological Survey.  
 Respectfully Submitted,  
*Jeff Christian*  
 Jeff Christian

LITH	D	DRILL TIME (MIN-FT)	10	DEPTH	10	SAMPLE DESCRIPTIONS	REMARKS
				3100			<b>ANHYDRITE 3103' (+329)</b> E Log 3104' (-328)
				3150			<b>Base ANHYDRITE 3139' (+293)</b> E Log 3140' (-292)

