

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1247676
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1247676

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

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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Tapstone Energy
Ralph 36-34-9 2H
API# 15-077-22114-01-00

Vertical Section Azimuth @ 179.45 Degrees

Depth	Inc	Azm	TVD	N/-S	E/-W	VS	DLS
835.00	0.4	194.24	834.99	-2.83	-0.72	2.82	0.05
867.00	0.46	195.94	866.99	-3.06	-0.78	3.06	0.19
898.00	0.23	124.81	897.99	-3.22	-0.76	3.21	1.44
930.00	0.53	78.43	929.99	-3.23	-0.57	3.22	1.25
962.00	1.26	58.47	961.99	-3.01	-0.12	3.01	2.46
993.00	1.67	41.54	992.98	-2.5	0.47	2.5	1.9
1025.00	2.07	51.35	1024.96	-1.79	1.23	1.8	1.61
1056.00	2.73	49.06	1055.93	-0.96	2.22	0.98	2.14
1088.00	2.67	46.74	1087.9	0.06	3.34	-0.02	0.38
1119.00	3.35	41.22	1118.85	1.23	4.46	-1.19	2.37
1182.00	3.68	41.53	1181.74	4.13	7.01	-4.06	0.52
1277.00	4.32	43.84	1276.5	8.99	11.51	-8.88	0.7
1371.00	4.32	46.84	1370.24	13.96	16.55	-13.8	0.24
1465.00	3.79	46.75	1464	18.51	21.39	-18.3	0.56
1560.00	3.53	57.18	1558.81	22.25	26.14	-22	0.75
1655.00	4.22	60.5	1653.59	25.56	31.64	-25.25	0.76
1750.00	4.27	59.45	1748.33	29.08	37.73	-28.72	0.1
1843.00	4.57	61.15	1841.05	32.63	43.96	-32.21	0.36
1938.00	4.55	64.56	1935.75	36.08	50.68	-35.59	0.29
2031.00	3.13	65.53	2028.54	38.71	56.32	-38.17	1.53
2126.00	1.99	68.56	2123.45	40.39	60.22	-39.81	1.2
2220.00	1.36	58.33	2217.4	41.57	62.69	-40.97	0.74
2314.00	0.74	51.32	2311.39	42.53	64.11	-41.92	0.67
2408.00	0.66	64.19	2405.38	43.15	65.07	-42.52	0.19
2503.00	0.57	68.07	2500.38	43.57	66	-42.93	0.11
2597.00	0.56	50.53	2594.37	44.03	66.79	-43.39	0.18
2690.00	0.72	58.21	2687.37	44.62	67.63	-43.97	0.2
2784.00	0.62	64.42	2781.36	45.15	68.59	-44.49	0.13
2878.00	0.68	70.99	2875.35	45.55	69.57	-44.88	0.1
2971.00	0.53	47.51	2968.35	46.02	70.41	-45.34	0.3
3067.00	0.8	67.74	3064.34	46.58	71.36	-45.89	0.37
3160.00	0.07	75.33	3157.34	46.84	72.01	-46.14	0.79
3255.00	0.22	46.02	3252.34	46.98	72.2	-46.28	0.17
3348.00	0.44	332.84	3345.34	47.42	72.16	-46.72	0.46
3442.00	0.56	3.51	3439.33	48.19	72.02	-47.5	0.3
3536.00	0.62	21.39	3533.33	49.12	72.23	-48.42	0.2
3631.00	0.41	69.85	3628.33	49.71	72.74	-49.01	0.49

3725.00	0.65	68.94	3722.32	50.02	73.56	-49.31	0.25
3819.00	0.88	97.01	3816.31	50.13	74.78	-49.41	0.46
3882.00	0.99	76.73	3879.3	50.19	75.79	-49.46	0.55
3913.00	1.05	105.3	3910.3	50.18	76.32	-49.44	1.63
3946.00	2.68	156.01	3943.28	49.39	76.93	-48.65	6.59
3977.00	5.13	165.49	3974.21	47.39	77.57	-46.64	8.14
4008.00	7.27	171.89	4005.03	44.11	78.19	-43.35	7.24
4040.00	9.6	176.36	4036.68	39.44	78.65	-38.68	7.55
4071.00	11.7	179.63	4067.14	33.72	78.83	-32.96	7.07
4102.00	13.82	182.49	4097.38	26.87	78.69	-26.12	7.12
4134.00	16.25	182.29	4128.28	18.58	78.35	-17.83	7.59
4165.00	18.9	181.56	4157.83	9.23	78.04	-8.48	8.58
4197.00	21.59	180.13	4187.85	-1.84	77.88	2.59	8.55
4229.00	24.75	180.68	4217.27	-14.43	77.79	15.18	9.91
4260.00	27.65	181.46	4245.08	-28.11	77.53	28.86	9.4
4291.00	29.59	183.1	4272.29	-42.95	76.93	43.68	6.76
4322.00	31.43	184.21	4299	-58.65	75.92	59.38	6.21
4353.00	33.2	184.25	4325.2	-75.18	74.7	75.89	5.71
4384.00	35.09	184.53	4350.85	-92.52	73.37	93.22	6.12
4416.00	37.54	183.2	4376.63	-111.43	72.09	112.12	8.04
4447.00	40.14	182.86	4400.78	-130.84	71.07	131.52	8.44
4479.00	42.66	182.78	4424.78	-151.98	70.03	152.64	7.85
4510.00	45.25	182.82	4447.1	-173.46	68.98	174.12	8.37
4542.00	47.7	181.75	4469.13	-196.65	68.06	197.29	8.03
4573.00	49.97	180.66	4489.53	-219.98	67.57	220.62	7.8
4605.00	52.88	180.05	4509.48	-244.99	67.42	245.63	9.2
4636.00	55.21	179.97	4527.69	-270.08	67.42	270.72	7.52
4667.00	57.14	180.97	4544.94	-295.83	67.2	296.47	6.79
4699.00	58.98	182.4	4561.87	-322.98	66.4	323.6	6.88
4730.00	59.11	182.46	4577.81	-349.54	65.27	350.15	0.45
4761.00	59.16	183.07	4593.72	-376.12	63.99	376.71	1.71
4793.00	59.15	183.63	4610.12	-403.54	62.39	404.12	1.5
4820.00	59.04	183.47	4623.99	-426.67	60.95	427.23	0.65
4855.00	58.77	184.03	4642.06	-456.57	58.99	457.12	1.58
4887.00	59.52	183.57	4658.48	-483.98	57.17	484.51	2.63
4918.00	62.04	182.6	4673.61	-511	55.72	511.51	8.59
4949.00	65.19	183.03	4687.38	-538.73	54.35	539.23	10.24
4981.00	68.08	183.22	4700.07	-568.06	52.75	568.54	9.03
5012.00	70.87	182.83	4710.94	-597.05	51.22	597.51	9.09
5043.00	73.87	181.47	4720.32	-626.57	50.11	627.02	10.53
5075.00	76.89	181.71	4728.4	-657.52	49.25	657.96	9.47
5106.00	79.75	181.06	4734.68	-687.86	48.52	688.3	9.43
5127.00	81.87	180.59	4738.03	-708.59	48.23	709.02	10.35
5191.00	87.20	180.07	4744.12	-772.28	47.86	772.70	8.36
5222.00	87.35	180.23	4745.6	-803.24	47.78	803.66	0.71
5253.00	88.86	180.34	4746.63	-834.22	47.62	834.64	4.9
5285.00	89.63	180.11	4747.05	-866.22	47.5	866.64	2.51

5317.00	90.55	180.29	4746.99	-898.22	47.38	898.63	2.95
5348.00	90.46	180.61	4746.72	-929.22	47.14	929.63	1.06
5380.00	90.25	181.01	4746.52	-961.21	46.69	961.62	1.43
5440.00	89.41	179.45	4746.7	-1021.21	46.44	1021.61	2.95
5499.00	89.72	178.57	4747.14	-1080.2	47.46	1080.6	1.59
5559.00	89.44	177.99	4747.58	-1140.17	49.26	1140.59	1.07
5619.00	89.32	177.86	4748.22	-1200.13	51.43	1200.56	0.3
5679.00	88.98	177.12	4749.11	-1260.06	54.05	1260.52	1.35
5739.00	88.8	177.27	4750.27	-1319.98	56.99	1320.47	0.39
5799.00	88.98	178.91	4751.44	-1379.93	58.98	1380.43	2.75
5859.00	90.25	180.53	4751.84	-1439.93	59.27	1440.43	3.42
5919.00	90	180.05	4751.71	-1499.93	58.97	1500.42	0.91
5979.00	89.63	179.94	4751.9	-1559.93	58.98	1560.42	0.64
6039.00	89.26	179.6	4752.48	-1619.92	59.22	1620.42	0.83
6099.00	90	180.43	4752.87	-1679.92	59.2	1680.41	1.85
6160.00	89.6	180.97	4753.08	-1740.91	58.45	1741.4	1.1
6220.00	89.08	181.06	4753.78	-1800.9	57.38	1801.37	0.88
6280.00	88.86	181.11	4754.86	-1860.88	56.25	1861.33	0.37
6340.00	89.63	180.71	4755.65	-1920.87	55.3	1921.31	1.44
6400.00	90.06	180.58	4755.81	-1980.86	54.62	1981.3	0.75
6461.00	89.75	181.67	4755.91	-2041.85	53.43	2042.27	1.86
6521.00	90.99	181.64	4755.52	-2101.82	51.69	2102.22	2.05
6581.00	90.83	181.87	4754.57	-2161.79	49.85	2162.17	0.46
6641.00	90.74	181.03	4753.75	-2221.76	48.33	2222.12	1.41
6702.00	90.65	181.01	4753.01	-2282.75	47.25	2283.1	0.16
6762.00	90.12	180.94	4752.61	-2342.74	46.23	2343.07	0.88
6823.00	89.78	180.7	4752.66	-2403.73	45.36	2404.06	0.68
6884.00	89.75	180.39	4752.9	-2464.73	44.78	2465.04	0.52
6944.00	89.48	178.86	4753.31	-2524.72	45.17	2525.04	2.58
7003.00	89.69	177.59	4753.74	-2583.69	46.99	2584.02	2.18
7064.00	89.48	176.99	4754.18	-2644.62	49.87	2644.98	1.04
7124.00	89.23	177.85	4754.86	-2704.56	52.57	2704.94	1.49
7185.00	89.69	177.39	4755.43	-2765.5	55.1	2765.9	1.07
7247.00	89.17	177.58	4756.05	-2827.44	57.82	2827.86	0.9
7310.00	89.51	179.16	4756.78	-2890.41	59.62	2890.85	2.57
7373.00	89.17	180.35	4757.5	-2953.4	59.89	2953.84	1.97
7436.00	90.28	179.9	4757.81	-3016.4	59.75	3016.83	1.9
7499.00	90.15	179.72	4757.57	-3079.4	59.96	3079.83	0.34
7562.00	89.23	179.66	4757.91	-3142.39	60.3	3142.83	1.47
7624.00	88.55	178.52	4759.11	-3204.37	61.28	3204.81	2.14
7687.00	88.77	178.47	4760.59	-3267.34	62.94	3267.79	0.36
7750.00	89.2	178.89	4761.7	-3330.31	64.39	3330.77	0.95
7814.00	89.26	178.94	4762.56	-3394.29	65.6	3394.76	0.12
7876.00	89.72	178.96	4763.11	-3456.28	66.74	3456.76	0.75
7939.00	89.72	179.5	4763.42	-3519.27	67.59	3519.76	0.85
8002.00	90.22	180.02	4763.45	-3582.27	67.86	3582.76	1.14
8065.00	90.25	181.68	4763.2	-3645.26	66.93	3645.73	2.64

8129.00	89.88	182.07	4763.13	-3709.23	64.83	3709.68	0.84
8224.00	88.86	180.65	4764.18	-3804.19	62.58	3804.62	1.83
8318.00	88.52	181.44	4766.33	-3898.15	60.87	3898.55	0.91
8412.00	89.85	181.16	4767.66	-3992.11	58.73	3992.49	1.45
8507.00	89.66	181.27	4768.07	-4087.09	56.72	4087.45	0.23
8602.00	89.48	180.85	4768.79	-4182.07	54.96	4182.41	0.48
8696.00	89.04	180.23	4770	-4276.06	54.07	4276.38	0.8
8791.00	89.57	181.17	4771.15	-4371.04	52.91	4371.35	1.13
8886.00	89.23	181.09	4772.15	-4466.02	51.03	4466.3	0.37
8980.00	89.26	180.74	4773.39	-4560	49.53	4560.26	0.38
9075.00	88.67	181.08	4775.1	-4654.97	48.03	4655.22	0.72
9119.00	88.67	180.66	4776.12	-4698.95	47.36	4699.19	0.94
9184.00	88.67	180.66	4777.62	-4763.93	46.61	4764.16	0.01

Motor Yield

N/A
8.68
8.14
7.24
7.55
7.07
7.12
7.59
8.58
8.55
9.9
10.2
7.59
7.2
7.2
6.54
8.04
8.42
7.85
8.37
9
9.1
9.1
8.16
7.36
6.89
N/A
N/A
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9.08
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9.47
9.45
10.33

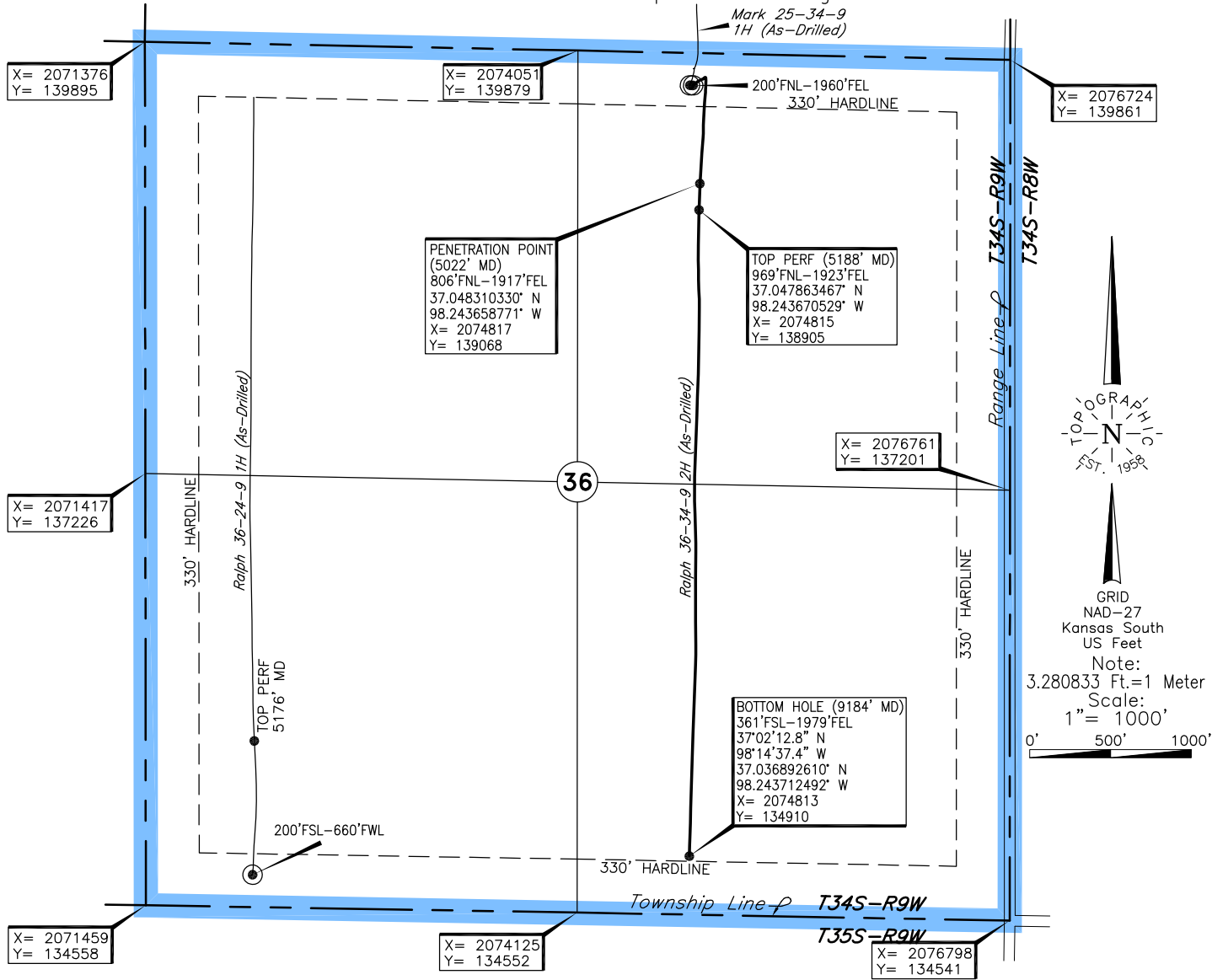
TOPOGRAPHIC LAND SURVEYORS

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
 Certificate of Authorization No. LS-99, Exp. Dec. 31, 2015

HARPER

County, Kansas

200'FNL-1960'FEL Section 36 Township 34S Range 9W P.M.



Operator: TAPSTONE ENERGY

Lease Name: RALPH 36-34-9

Well No.: 2H

ELEVATION:
1274' Gr. at Stake

Topography & Vegetation Loc. fell in pasture on a small sandy hill

Good Drill Site? Yes Reference Stakes or Alternate Location
 Stakes Set None

Best Accessibility to Location East off of county road

Distance & Direction from Hwy Jct or Town From Waldron, KS, go ±4.5 miles North, then ±3 miles West then ±1.0 miles South to the NE corner of Sec. 25-T34S-R9W

(This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy)

DATUM: NAD-27
 LAT: 37°02'59.9" N
 LONG: 98°14'37.8" W
 LAT: 37.049976606° N
 LONG: 98.243827323° W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: KS SOUTH
 X: 2074767
 Y: 139674

239504 Date of Drawing: Jan. 22, 2015
 Invoice # 231498A Date Staked: Oct. 9, 2014 JP

FINAL AS-DRILLED PLAT

AS-DRILLED INFORMATION
 FURNISHED BY TAPSTONE ENERGY

HALLIBURTON

iCem[®] Service

TAPSTONE ENERGY

For: BUCK FOGLE

Date: Saturday, January 03, 2015

RALPH 36-34-9 2H

TAPSTONE ENERGY

Sincerely,
STEPHEN FISH

Legal Notice

Warning Disclaimer

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1.0 Real-Time Job Summary

1.1 Stage Summary - Liquid Volume, Density, & Design Shutdown

1.2 Stage Summary - Pump Pressure & ECD

1.3 Stage Summary - Pump Rate & Nitrogen Rate

1.4 Shutdown Summary

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1.5 Job Event Log

Event	Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pass-Side Pump Pressure (psi)	Comments
Event 1	Call Out		Call Out		1/2/2015	22:00:00	USER				DRIVING WHILE TIRED, SAFE FOLLOWING DISTANCE, WATCHING FOR BAD ROAD CONDITIONS
Event 2	Pre-Convoy Safety Meeting		Pre-Convoy Safety Meeting		1/2/2015	23:30:00	USER				
Event 3	Depart from Service Center or Other Site		Depart from Service Center or Other Site		1/3/2015	00:01:00	USER				
Event 4	Arrive at Location from Service Center		Arrive at Location from Service Center		1/3/2015	05:30:00	USER				RIG WAS STARTING TO RUN CASING
Event 5	Pre-Rig Up Safety Meeting		Pre-Rig Up Safety Meeting		1/3/2015	09:30:00	USER				PINCH POINTS, LINE OF FIRE, LIFTING AND LOWERING, REPORT ALL INJURYS,
Event 6	Rig-Up Equipment		Rig-Up Equipment		1/3/2015	10:00:00	USER	0.07	0.00	-4.00	
Event 7	Start Job		Start Job		1/3/2015	10:32:00	COM5	0.08	0.00	-1.00	
Event 8	Prime Pumps		Prime Pumps		1/3/2015	10:39:48	COM5	0.06	0.00	0.00	
Event 9	Test Lines		Test Lines		1/3/2015	11:05:57	COM5	8.50	0.00	-1.00	2000 PSI, GOOD TEST
Event 10	Pump Spacer 1		Pump Spacer 1		1/3/2015	11:09:25	COM5	8.55	0.00	1.00	WATER AHEAD
Event 11	Pump Cement		Pump Cement		1/3/2015	11:14:15	COM5	13.41	4.00	75.00	@ 15 #
Event 12	Shutdown		Shutdown		1/3/2015	11:44:23	COM5	14.89	0.00	74.00	WASH PUMPS AND LINES ON TOP OF PLUG
Event 13	Pump Displacement		Pump Displacement		1/3/2015	11:45:42	COM5	14.73	0.00	-10.00	CEMENT TO SURFACE @ 15 BBL5 GONE 45 BBL5 BACK TO SURFACE
Event 14	Bump Plug		Bump Plug		1/3/2015	12:01:21	COM5	8.64	0.00	860.00	500 OVER
Event 15	Check Floats		Check Floats		1/3/2015	12:03:09	USER	8.64	0.00	881.00	FLOATS DID NOT HOLD
Event 16	End Job		End Job		1/3/2015	12:08:14	COM5	8.65	0.00	478.00	

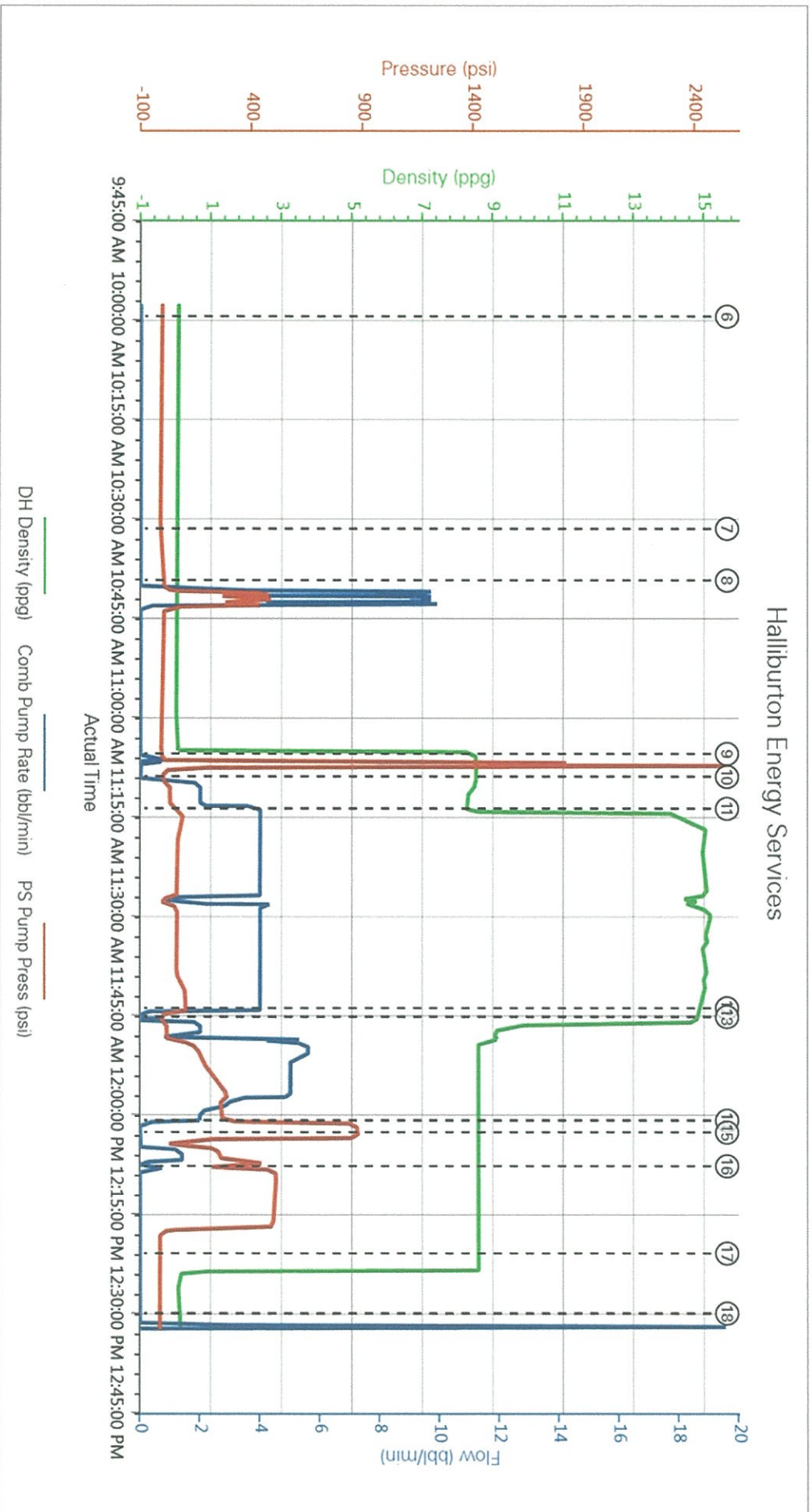
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Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Downhole Density (ppg)	Combined Pump Rate (bb/min)	Pass-Side Pump Pressure (psf)	Comments
Event	17	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	1/3/2015	12:21:26	USER	8.61	0.00	-11.00	LINE OF FIRE, PINCH POINTS, LIFTING LOWERING, SUP TRIPS AND FALLS
Event	18	Rig-Down Equipment	Rig-Down Equipment	1/3/2015	12:30:29	USER	0.13	0.00	-11.00	PLANNED STOPS, DRIVING WHILE TIRED, SAFE FOLLOWING DISTANCE
Event	19	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	1/3/2015	13:00:00	USER				
Event	20	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	1/3/2015	13:30:00	USER				

2.0 Custom Graphs

2.1 Custom Graph



3.0 Appendix

3.1 One-Minutes Real-Time Data Listing

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iCem[®] Service

TAPSTONE ENERGY LLC

For:

Date: Sunday, January 11, 2015

ralph 2h

Case 1

Sincerely,

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1.0 Job Design

1.1 Time of Stages

Graph Label	Time (min)	Stage Starts Pumping	Stage Enters Annulus
①	0	Drop Bottom Plug	
②	0	Shutdown	
③	0	Drop Top Plug	
④	0	Slow Rate	

- 2.0 Hydraulics Summary
 - 3.0 Temperature Modeling
 - 4.0 Real-Time Job Summary
-

4.1 Stage Summary - Liquid Volume, Density, & Design Shutdown

4.2 Stage Summary - Pump Pressure & ECD

4.3 Stage Summary - Pump Rate & Nitrogen Rate

4.4 Shutdown Summary

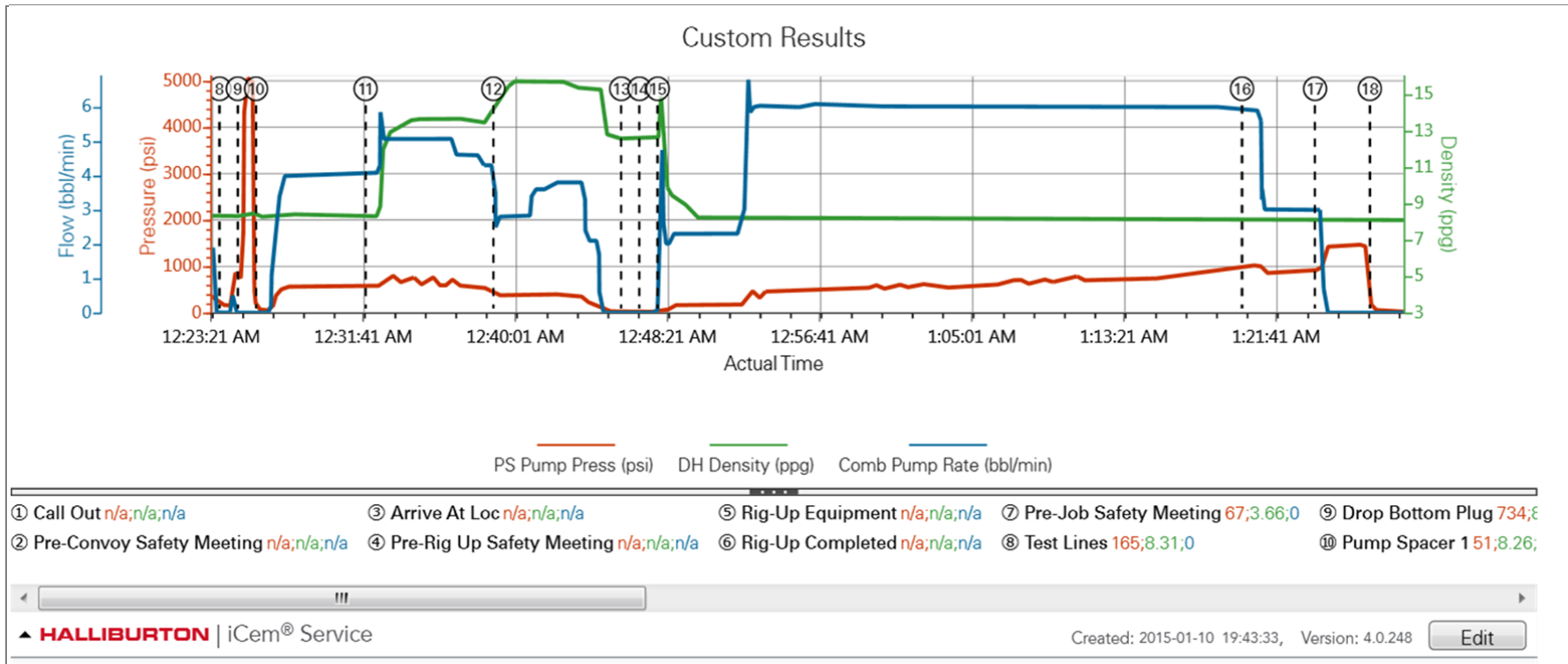
4.5 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Comments
Event	1	Call Out	Call Out	1/10/2015	14:00:00	USER				requested 20:00
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	1/10/2015	17:30:00	USER				stay on route, use smith driving skills
Event	3	Arrive At Loc	Arrive At Loc	1/10/2015	18:00:00	USER				get job info from companyman,
Event	4	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	1/10/2015	18:20:00	USER				spot equipment using spotters, watch icy area near rig up area, stay clear of line of fire
Event	5	Rig-Up Equipment	Rig-Up Equipment	1/10/2015	18:25:00	USER				
Event	6	Rig-Up Completed	Rig-Up Completed	1/10/2015	19:20:00	USER				wait on casing crew to run casing
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	1/10/2015	23:50:00	USER				stay clear of red zone, don't hammer on pressurized iron,
Event	8	Test Lines	Test Lines	1/11/2015	00:24:00	COM5	5000.00	8.34	0.00	test lines 500 low, 5000 psi high
Event	9	Drop Bottom Plug	Drop Bottom Plug	1/11/2015	00:25:00	USER	0.00	8.34	0.00	drop bottom plug
Event	10	Pump Spacer 1	Pump Spacer 1	1/11/2015	00:26:00	COM5	530.00	8.40	4.50	pump 10 bbls mudflush ahead...good returns
Event	11	Pump Lead Cement	Pump Lead Cement	1/11/2015	00:32:00	COM5	563.00	13.60	5.00	pump 37 bbls (140 sks) lead at 13.6# TOLC 3207'...good returns
Event	12	Pump Tail Cement	Pump Tail Cement	1/11/2015	00:39:00	COM5	391.00	15.60	4.50	pump 19 bbls (90 sks) tail at 15.6# TOTC 4600'...good returns
Event	13	Shutdown	Shutdown	1/11/2015	00:46:00	USER	0.00	15.60	0.00	
Event	14	Drop Top Plug	Drop Top Plug	1/11/2015	00:47:00	USER				drop top plug
Event	15	Pump Displacement	Pump Displacement	1/11/2015	00:48:00	COM5	445.00	8.34	6.00	pump 195 bbls water displacement...good returns

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Comments
Event	16	Slow Rate	Slow Rate	1/11/2015	01:20:00	USER	855.00	8.34	3.00	slow rate to 3 bbls mmin at 185 bbls gone
Event	17	Bump Plug	Bump Plug	1/11/2015	01:24:00	COM5	1450.00	8.34	3.00	land plug from 930-1450 psi
Event	18	Check Floats	Check Floats	1/11/2015	01:27:00	USER	0.00	8.34	0.00	floats holding 1 bbl back
Event	19	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	1/11/2015	01:30:00	USER				watch line of fire, use tag line, use proper lifting
Event	20	Rig-Down Equipment	Rig-Down Equipment	1/11/2015	01:35:00	USER				
Event	21	Rig-Down Completed	Rig-Down Completed	1/11/2015	02:10:00	USER				
Event	22	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	1/11/2015	02:15:00	USER				stay on route
Event	23	Depart Location	Depart Location	1/11/2015	02:30:00	USER				

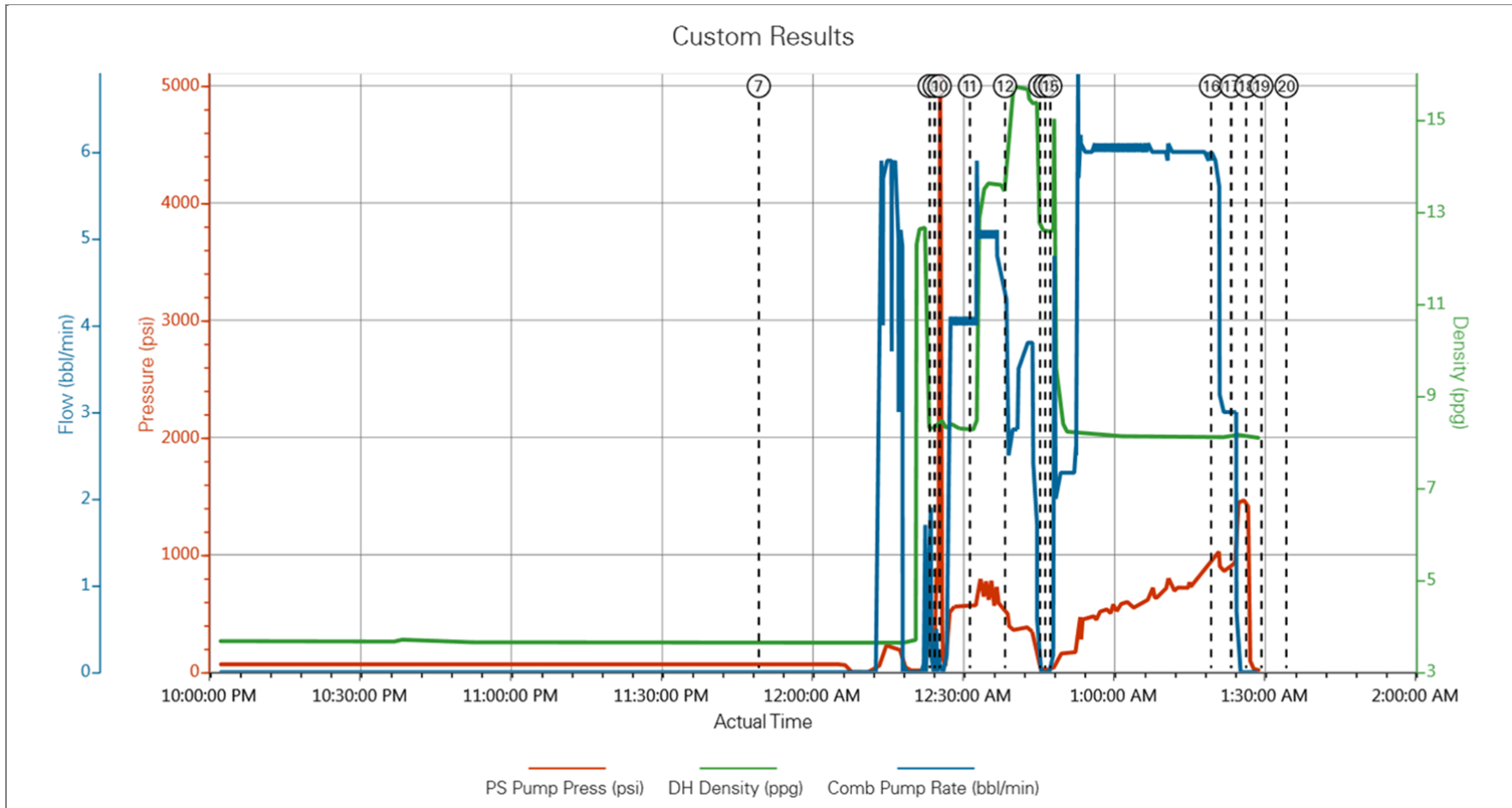
5.0 Attachments

5.1 Case 1-Custom Results.png



6.0 Custom Graphs

6.1 Custom Graph



7.0 Appendix

7.1 One-Minutes Real-Time Data Listing
