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TO: Randy Pancheco, APWS; Jim Griswold, NMOCD

FROM: Curtis Shuck, Chairman

DATE: November 13, 2022

RE: Judy #003 (30-025-26262) Orphan Well Pre-Plugging Methane Monitoring

TECHNICAL MEMORANDUM

The Well Done Foundation, Inc. (WDF) performing contract professional services methane monitoring for A-Plus Well Services, Inc. (APWS) for the State of New Mexico Energy, Minerals and Natural Resources Department – Oil Conservation Division (OCD) under Purchase Order #10000002000038AA for Orphan Oil & Gas Wells in Lea County, NM.

The site conditions found at Judy #003 by the WDF Measure 1 Team on September 17, 2022, at 4:00 P.M. revealed a leaking wellhead with high concentrations of methane gas present and leaking by the production valve at the 2-3/8" tubing and from the 4" casing. The WDF Team performed field gas measurements, collected gas samples and performed a 43.1-hour Methane Emissions Flow Monitoring Test using Ventbuster™ Instruments VB100-046 Ultra-Low Flow Meter with GPS for site location verification.



Image 1.1 – Judy #003 (30-025-26262) Lea County, New Mexico

The findings from the Pre-Plugging Methane Flow Monitoring Test, using Ventbuster™ Instruments VB100-0046 Ultra-Low Flow Meter with GPS, resulted in 2.87 cubic meters of total measured wellhead emissions over the 43.1-hour period that established a flow rate of 1.60 cubic meters per day (m³/day). A composite gas sample was collected at the wellhead by WDF during the methane flow test beginning on September 17, 2022, and at the end of the methane flow test on September 19, 2022, approximately 43.1-hours later. Methane gas concentration levels were measured at 556,580 ppm, pursuant to Test ID 2022058119 performed by Laboratory Services of Hobbs, NM on September 22, 2022, at 8:06 A.M. Therefore, the average methane gas emission measured at this wellhead is calculated at **20.56 grams per hour (g/hour)**.¹ The peak methane gas emission was recorded at 2:52 P.M. on September 19, 2022 and would indicate that this orphan well has a much higher emission rate potential of **79.92 grams per hour (g/hour)**.

¹ Methane Calculation: 554 grams CH₄ per cubic meter (554 x 2.25 = 1,246.5 g/day total / 24 = 51.94 g/hour x 0.399350 (methane concentration) = **20.74 g/hour CH₄**). **Methane, gas** weighs 0.000554 gram per cubic centimeter or 0.554 kilogram per cubic meter, i.e. density of methane, gas is equal to 0.554 kg/m³; at 0°C (32°F or 273.15K) at standard atmospheric pressure. In Imperial or US customary measurement system, the density is equal to 0.0346 pound per cubic foot [lb/ft³], or 0.0003202 ounce per cubic inch [oz/inch³].

This orphan well does exceed the >1 g/hour federal program reporting requirements for methane emissions reductions as described in Section 40601 (Orphaned well site plugging, remediation, and restoration) of Title V (Methane Reduction Infrastructure) of the 2021 Bipartisan Infrastructure Law (BIL; Public Law 117-58)².



Test Report

Start Date: Saturday, September 17th, 2022, 4:06 PM MDT

End Date: Monday, September 19th, 2022, 11:13 AM MDT

Device: VB100-0046

Well Licensee: NMOCD

Well Name: Judy 3

UWI: 30-025-26262

Well License Number: 30-025-26262

Surface Location: Harrison

Bottom Hole Location: unknown

Test Operator: ces

Authorized By: NMOCD

Test Reason: IJJA PRE PLUG

Scope Of Work: 12-Hour

AFE Number: NMOCD038AA / APWS22.001

GPS: 32.14639,-103.20361

Notes: GTG

Flow Test

Average Flowrate

1.60

m³/d

20.56

g/ hour

Average Flow
Temperature

31.0

°C

Average Flow
Pressure

-12.7

kPag

Flow Duration

43.1

hours

Image 2.1 – Judy #003 (30-025-26262) Methane Monitoring Dashboard

BACKGROUND

The Judy #003 (30-025-26262) Orphan Well is located in Lea County, NM at Latitude 32.14640457994997, Longitude -103.2036142834982 was measured and monitored by the WDF Field Team on 9/17-19/2022 following a Safety Briefing. Per the WDF protocol, the GPS coordinates were updated and the well was photographed from four (4) compass point aspects and closeups capturing the wellhead, field gas analysis results and gas sampling and uploaded to the WDF Well Intel™ IoT site. A Field Gas Analysis was conducted to detect Methane and H₂S gas presence and concentration levels using a Honeywell BW Quattro Multi Gas Meter, serial number: QA121-012211.

² These April 11, 2022 Guidelines were developed to meet the federal program reporting requirements for methane emissions reductions as described in Section 40601 (Orphaned well site plugging, remediation, and restoration) of Title V (Methane Reduction Infrastructure) of the 2021 Bipartisan Infrastructure Law (BIL; Public Law 117-58).

WDF Well Intel

Well Site

Info	Well File	Images	Well Data	Regulatory	Field Notes	Access	Remove Well
Name	JUDY #003 (30-025-26262)						
Stage	Stage 2b - Contract Monitoring Completed						⌵
GPS	32.14640457994997		✓	-103.2036142834982		✓	
API	30-025-26262						
Contract ID	NMOCD008AA/CO1 - APWS22.001						

Image 3.1 – WDF Well Intel™ Orphan Well Project Management IoT

The WDF Field Team collected Gas Sample #1 and #2 using a 1 Liter Tedlar/TO-Plus Gas Sampling Bag from the 2-3/8" production tubing which was flowing gas past the valve and at the 4" casing port at the beginning of the Flow Test at approximately 3:35 P.M MDT on 9.17.2022 as the well was being prepared for the Methane Flow Measurement. Gas Sample #2 was collected in the same 1 Liter Tedlar Bag on 9.19.2022 before the Methane Flow Test was concluded 11:13 A.M. MDT. The collected Gas Sample was secured and placed in a storage cooler for transport to Laboratory Services, Inc. in Hobbs, NM.

WDF rigged up the Ventbuster™ Instruments VB100-046 Continuous Ultra-Low Flow Meter with GPS for testing site confirmation for a minimum 12-Hour Methane Emission Test and began Test ID: d18015475, verifying a cellular signal, cloud link and GPS coordinates on September 17, 2022.

WDF returned to location on 9.19.2022 (approximately 43.1-hours) to conclude the Pre-Plugging Methane Emission Flow Test and rig the VB100-046 down and secure the wellhead. A "Green Ribbon" was placed at the Wellhead indicating that WDF had concluded the Pre-Plugging Methane Flow testing.

TECHNICAL FINDINGS

Judy #003 (30-025-26262):

- **Total C1 through C6 Gas Concentration: 559,410 ppm**
- **Total Measured Wellhead Gas Emissions: 1.60 m3/day**
- **Methane Gas Concentration: 556,680 ppm**
- **Calculated Average Wellhead Methane Gas Emissions: 20.56 g/hour**
- **Peak Methane Flow Measured at: 3,005.00 g/hour**

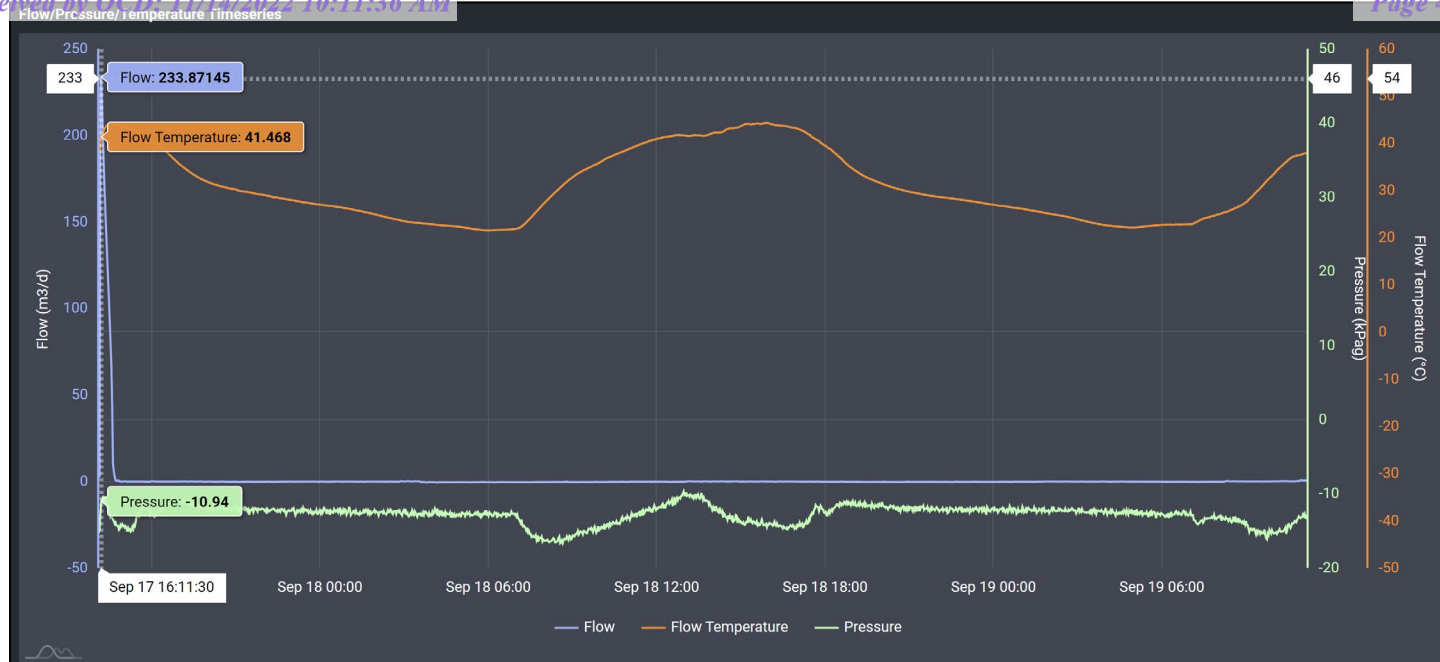


Image 4.1 – Judy #003 (30-025-26262) Methane Flow/Pressure/Temperature Timeseries & Peak Flow

CONCLUSIONS

- The Judy #003 (30-025-26262) is currently emitting Methane at the average rate of 20.56 g/hour, which is above the Federal minimum threshold for reporting described in Section 40601 (Orphaned well site plugging, remediation, and restoration) of Title V (Methane Reduction Infrastructure) of the 2021 Bipartisan Infrastructure Law (BIL; Public Law 117-58) which is >1g/hour.
- WDF did capture a Methane Flow Peak at 233.87 m3/day recorded at 4:11 P.M on September 17, 2022, which indicates a much higher potential for Methane Emissions that exceed the Federal minimum threshold, therefore plugging of this well however should be a priority in the NMOCD schedule.

FIELD NOTES

#	Date	Note
1	2022-09-17	ces: On location at 3:30 MST. Found gas leaking at tubing packing & casing. Collect gas samples. Document site photos. Rig up VB100-046 for Methane Monitoring.
2	2022-09-19	ces: WDF Measure 1 Team back on location at the Judy 1 Orphan Well to collect gas Sample #2 and rig down VB200-046. Secure wellsite and leaking packing (as best as possible). WILDCAT OUT!

Image 4.2 – Judy #003 (30-025-26262) Field Notes from WDF Well Intel™ Orphan Well Project Management IoT

Appendix A – Site Photos for Judy #003 (30-025-24641)



1) Judy #003 (30-025-26262) – North Facing



2) Judy #003 (30-025-26262) – West Facing



3) Judy #003 (30-025-26262) – Gas Sample



4) Judy #003 (30-025-26262) – VB100-046 Rig Up

Well Done Foundation, Inc. / Ventbuster Test Data

Test ID: 6328a3386637caad18015475
 Start Date: Sat Sep 17 2022 22:06:07 GMT+0000 (Coordinated Universal Time)
 End Date: Mon Sep 19 2022 17:13:24 GMT+0000 (Coordinated Universal Time)
 Device: VB100-0046
 Well Owner: Well Done Foundation Inc.
 Service Provider: Well Done Foundation Inc.
 Well Licensee: NMOCD
 Well Name: Judy 3
 UWI: 30-025-26262
 Well License Number: 30-025-26262
 Surface Location: Harrison
 Bottom Hole Location: unknown
 Test Operator: ces
 Authorized By: NMOCD
 Test Reason: IJIA PRE PLUG
 Scope of Work: 12-Hour
 AFE Number: NMOCD038AA / APWS22.001
 GPS: 32.14639 -103.20361
 Notes: GTG

Field Notes:

time	Flow_m3_per_day	Pressure_kPag	Flow_Temperature_C	Shut_in_Status_Mode
2022-09-17T22:06:07.000	2.814414545	-15.21818182	38.04181818	0
2022-09-17T22:07:54.803	3.272622545	-14.84545455	38.38727273	0
2022-09-17T22:09:42.606	226.9139695	-12.45454545	40.24272727	0
2022-09-17T22:11:30.409	233.8714512	-10.94	41.468	0
2022-09-17T22:13:18.212	216.9817135	-10.60909091	42.03909091	0
2022-09-17T22:15:06.015	199.3885135	-10.41818182	42.45727273	0
2022-09-17T22:16:53.818	182.5865935	-10.73636364	42.81181818	0
2022-09-17T22:18:41.621	167.8694138	-10.37272727	43.17818182	0
2022-09-17T22:20:29.424	154.9299888	-10.39	43.476	0
2022-09-17T22:22:17.227	142.9973542	-11.23636364	43.71454545	0
2022-09-17T22:24:05.030	130.6063898	-11.62727273	43.91363636	0
2022-09-17T22:25:52.833	117.7946182	-11.82727273	44.06090909	0
2022-09-17T22:27:40.636	107.0514144	-12.07	44.151	0
2022-09-17T22:29:28.439	94.39863709	-12.24545455	44.15090909	0
2022-09-17T22:31:16.242	80.80476218	-13.1	44.13	0
2022-09-17T22:33:04.045	67.85304873	-12.97272727	44.06363636	0
2022-09-17T22:34:51.848	42.33131345	-13.18181818	44.03090909	0
2022-09-17T22:36:39.651	10.502784	-13.43	44.021	0
2022-09-17T22:38:27.454	6.002705455	-13.6	44.03909091	0
2022-09-17T22:40:15.257	3.088983273	-13.98181818	44.10090909	0
2022-09-17T22:42:03.060	0.980535273	-13.80909091	44.18636364	0
2022-09-17T22:43:50.863	0.5869152	-14.21	44.177	0
2022-09-17T22:45:38.666	0.614749091	-14.21818182	44.14272727	0
2022-09-17T22:47:26.469	0.677166545	-14.21818182	44.07727273	0
2022-09-17T22:49:14.272	0.720353455	-14.77272727	44.01545455	0
2022-09-17T22:51:02.075	0.197869091	-14.6	43.99	0
2022-09-17T22:52:49.878	0.2891952	-14.13	43.889	0

2022-09-17T22:54:37.681Z	0.178507636	-14.30909091	43.82272727	0
2022-09-17T22:56:25.484Z	0.182251636	-14.02727273	43.74181818	0
2022-09-17T22:58:13.287Z	0.244616727	-14.26363636	43.63363636	0
2022-09-17T23:00:01.090Z	0.303984	-14.21	43.562	0
2022-09-17T23:01:48.893Z	0.332718545	-14.47272727	43.5	0
2022-09-17T23:03:36.696Z	0.274594909	-14.31818182	43.46	0
2022-09-17T23:05:24.499Z	0.253413818	-14.55454545	43.43727273	0
2022-09-17T23:07:12.302Z	0.116469818	-15.04545455	43.40636364	0
2022-09-17T23:09:00.105Z	0.1209888	-14.54	43.36	0
2022-09-17T23:10:47.908Z	0.157575273	-14.82727273	43.33818182	0
2022-09-17T23:12:35.711Z	0.20448	-14.7	43.29090909	0
2022-09-17T23:14:23.514Z	0.150820364	-15.02727273	43.23818182	0
2022-09-17T23:16:11.317Z	0.1503792	-14.87	43.176	0
2022-09-17T23:17:59.120Z	0.139339636	-14.41818182	43.10363636	0
2022-09-17T23:19:46.923Z	0.237848727	-14.70909091	43.03181818	0
2022-09-17T23:21:34.726Z	0.220647273	-14.11818182	42.94636364	0
2022-09-17T23:23:22.529Z	0.127099636	-14.27272727	42.81	0
2022-09-17T23:25:10.332Z	0.1515744	-13.7	42.743	0
2022-09-17T23:26:58.135Z	0.130752	-12.97272727	42.63090909	0
2022-09-17T23:28:45.938Z	0.168165818	-12.89090909	42.46090909	0
2022-09-17T23:30:33.741Z	0.146042182	-12.46363636	42.30545455	0
2022-09-17T23:32:21.544Z	0.192135273	-13.11818182	42.23	0
2022-09-17T23:34:09.347Z	0.1022112	-12.41	42.117	0
2022-09-17T23:35:57.150Z	0.147652364	-12.29090909	41.98272727	0
2022-09-17T23:37:44.953Z	0.197973818	-11.98181818	41.88636364	0
2022-09-17T23:39:32.756Z	0.263755636	-11.42727273	41.74181818	0
2022-09-17T23:41:20.559Z	0.191808	-11.14	41.608	0
2022-09-17T23:43:08.362Z	0.136852364	-11.72727273	41.47909091	0
2022-09-17T23:44:56.165Z	0.099163636	-11.46363636	41.34090909	0
2022-09-17T23:46:43.968Z	0.134509091	-11.80909091	41.18636364	0
2022-09-17T23:48:31.771Z	0.076149818	-11.37272727	41.06272727	0
2022-09-17T23:50:19.574Z	0.068544	-11.86	40.878	0
2022-09-17T23:52:07.377Z	0.092356364	-11.63636364	40.83	0
2022-09-17T23:53:55.180Z	0.060676364	-12.24545455	40.67181818	0
2022-09-17T23:55:42.983Z	0.116548364	-12.70909091	40.59181818	0
2022-09-17T23:57:30.786Z	0.2016576	-12.3	40.502	0
2022-09-17T23:59:18.589Z	0.310856727	-12.50909091	40.37636364	0
2022-09-18T00:01:06.392Z	0.328241455	-12.61818182	40.30363636	0
2022-09-18T00:02:54.195Z	0.347956364	-12.84545455	40.22090909	0
2022-09-18T00:04:41.998Z	0.26424	-13.07272727	40.17454545	0
2022-09-18T00:06:29.801Z	0.1938528	-12.96	40.137	0
2022-09-18T00:08:17.604Z	0.190302545	-12.29090909	40.04545455	0
2022-09-18T00:10:05.407Z	0.213709091	-12.66363636	39.96909091	0
2022-09-18T00:11:53.210Z	0.163178182	-12.36363636	39.86090909	0
2022-09-18T00:13:41.013Z	0.1704816	-12.48	39.767	0
2022-09-18T00:15:28.816Z	0.146002909	-12.38181818	39.65	0
2022-09-18T00:17:16.619Z	0.160298182	-12.23636364	39.50363636	0
2022-09-18T00:19:04.422Z	0.141656727	-12.05454545	39.35	0
2022-09-18T00:20:52.225Z	0.156973091	-12.26363636	39.18090909	0

2022-09-18T00:22:40.028	0.192024	-11.53	39.021	0
2022-09-18T00:24:27.831	0.158269091	-11.06363636	38.86727273	0
2022-09-18T00:26:15.634	0.282449455	-11.49090909	38.65727273	0
2022-09-18T00:28:03.437	0.167498182	-11.14545455	38.51636364	0
2022-09-18T00:29:51.240	0.175365818	-11.51818182	38.34545455	0
2022-09-18T00:31:39.043	0.202392	-11.34	38.176	0
2022-09-18T00:33:26.846	0.189700364	-11.21818182	38.02181818	0
2022-09-18T00:35:14.649	0.188247273	-11.04545455	37.83727273	0
2022-09-18T00:37:02.452	0.199662545	-10.87272727	37.66818182	0
2022-09-18T00:38:50.255	0.180091636	-10.97272727	37.49636364	0
2022-09-18T00:40:38.058	0.1929168	-11.17	37.336	0
2022-09-18T00:42:25.861	0.202752	-11.36363636	37.16090909	0
2022-09-18T00:44:13.664	0.235309091	-10.43636364	36.97818182	0
2022-09-18T00:46:01.467	0.195093818	-10.88181818	36.81363636	0
2022-09-18T00:47:49.270	0.1853712	-10.89	36.652	0
2022-09-18T00:49:37.073	0.165744	-11.00909091	36.51181818	0
2022-09-18T00:51:24.876	0.225085091	-11.02727273	36.31454545	0
2022-09-18T00:53:12.679	0.155899636	-10.99090909	36.17636364	0
2022-09-18T00:55:00.482	0.166778182	-10.68181818	36	0
2022-09-18T00:56:48.285	0.219312	-10.72	35.822	0
2022-09-18T00:58:36.088	0.242312727	-10.78181818	35.67818182	0
2022-09-18T01:00:23.891	0.239197091	-10.85454545	35.52909091	0
2022-09-18T01:02:11.694	0.206548364	-10.92727273	35.38363636	0
2022-09-18T01:03:59.497	0.2343888	-11.38	35.238	0
2022-09-18T01:05:47.300	0.221092364	-10.85454545	35.10909091	0
2022-09-18T01:07:35.103	0.212386909	-10.68181818	34.96363636	0
2022-09-18T01:09:22.906	0.195473455	-11.10909091	34.83727273	0
2022-09-18T01:11:10.709	0.198078545	-11.14545455	34.69636364	0
2022-09-18T01:12:58.512	0.209448	-10.97	34.543	0
2022-09-18T01:14:46.315	0.188797091	-11.22727273	34.43272727	0
2022-09-18T01:16:34.118	0.158884364	-11.00909091	34.30909091	0
2022-09-18T01:18:21.921	0.150440727	-11.29090909	34.18454545	0
2022-09-18T01:20:09.724	0.2676528	-11.21	34.01	0
2022-09-18T01:21:57.527	0.244472727	-11.27272727	33.90727273	0
2022-09-18T01:23:45.330	0.270235636	-11.08181818	33.77	0
2022-09-18T01:25:33.133	0.240872727	-11.58181818	33.66181818	0
2022-09-18T01:27:20.936	0.213041455	-11.57272727	33.55	0
2022-09-18T01:29:08.739	0.2042064	-11.22	33.449	0
2022-09-18T01:30:56.542	0.200395636	-11.60909091	33.34090909	0
2022-09-18T01:32:44.345	0.16992	-11.46363636	33.23454545	0
2022-09-18T01:34:32.148	0.152692364	-11.34545455	33.13272727	0
2022-09-18T01:36:19.951	0.168552	-11.66	33.018	0
2022-09-18T01:38:07.754	0.152194909	-11.44545455	32.92363636	0
2022-09-18T01:39:55.557	0.209729455	-11.46363636	32.8	0
2022-09-18T01:41:43.360	0.230674909	-11.66363636	32.68636364	0
2022-09-18T01:43:31.163	0.197109818	-11.43636364	32.59909091	0
2022-09-18T01:45:18.966	0.208152	-12.06	32.485	0
2022-09-18T01:47:06.769	0.164434909	-11.55454545	32.41363636	0
2022-09-18T01:48:54.572	0.122871273	-11.64545455	32.30909091	0

2022-09-18T01:50:42.375	0.129207273	-11.17272727	32.23636364	0
2022-09-18T01:52:30.178	0.1170864	-11.67	32.172	0
2022-09-18T01:54:17.981	0.108209455	-11.89090909	32.07181818	0
2022-09-18T01:56:05.784	0.114663273	-12.07272727	32.01	0
2022-09-18T01:57:53.587	0.154119273	-11.84545455	31.93818182	0
2022-09-18T01:59:41.390	0.147652364	-11.81818182	31.86636364	0
2022-09-18T02:01:29.193	0.160704	-11.4	31.786	0
2022-09-18T02:03:16.996	0.181584	-12.32727273	31.72181818	0
2022-09-18T02:05:04.799	0.160586182	-11.92727273	31.64363636	0
2022-09-18T02:06:52.602	0.172865455	-11.86363636	31.57454545	0
2022-09-18T02:08:40.405	0.132008727	-11.64545455	31.55727273	0
2022-09-18T02:10:28.208	0.1207872	-11.79	31.469	0
2022-09-18T02:12:16.011	0.057063273	-12.07272727	31.38363636	0
2022-09-18T02:14:03.814	0.047009455	-11.75454545	31.33545455	0
2022-09-18T02:15:51.617	0.083088	-11.4	31.29272727	0
2022-09-18T02:17:39.420	0.08244	-11.89	31.269	0
2022-09-18T02:19:27.223	0.074068364	-12.13636364	31.20909091	0
2022-09-18T02:21:15.026	0.129403636	-11.78181818	31.13727273	0
2022-09-18T02:23:02.829	0.099320727	-11.80909091	31.09909091	0
2022-09-18T02:24:50.632	0.103863273	-11.98181818	31.02909091	0
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2022-09-18T02:48:12.071	0.031719273	-12.15454545	30.45181818	0
2022-09-18T02:49:59.874	0.0349632	-11.94	30.427	0
2022-09-18T02:51:47.677	0.065834182	-12.10909091	30.45636364	0
2022-09-18T02:53:35.480	0.041380364	-12.08181818	30.37363636	0
2022-09-18T02:55:23.283	0.078336	-11.81818182	30.34909091	0
2022-09-18T02:57:11.086	0.041706	-11.5875	30.33625	0
2022-09-18T02:58:58.889	0.059513143	-11.77142857	30.32857143	0
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2022-09-18T04:55:46.084	0.132663273	-12.26363636	28.08818182	0
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2022-09-18T05:31:42.144	0.099752727	-12.28181818	27.51818182	0
2022-09-18T05:33:29.947	0.161489455	-12.15454545	27.46181818	0
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2022-09-18T05:37:05.553	0.198261818	-12.38181818	27.39	0
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2022-09-18T05:42:28.962	0.176256	-12.68	27.299	0
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2022-09-18T05:55:03.583	0.086727273	-12.60909091	27.13	0
2022-09-18T05:56:51.386	0.111796364	-12.33636364	27.10363636	0
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2022-09-18T06:32:47.446Z	0.1349712	-12.35	26.672	0
2022-09-18T06:34:35.249Z	0.233083636	-12.28181818	26.60454545	0
2022-09-18T06:36:23.052Z	0.169252364	-12.08181818	26.59909091	0
2022-09-18T06:38:10.855Z	0.213250909	-12.47272727	26.55090909	0
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2022-09-18T06:45:22.067Z	0.072497455	-12.30909091	26.48909091	0
2022-09-18T06:47:09.870Z	0.139287273	-12.5	26.46272727	0
2022-09-18T06:48:57.673Z	0.1216944	-12.08	26.398	0
2022-09-18T06:50:45.476Z	0.187527273	-12.37272727	26.36636364	0
2022-09-18T06:52:33.279Z	0.153792	-12.03636364	26.34	0
2022-09-18T06:54:21.082Z	0.169488	-12.15454545	26.32	0
2022-09-18T06:56:08.885Z	0.1361376	-12.72	26.302	0
2022-09-18T06:57:56.688Z	0.2179584	-12.49	26.232	0
2022-09-18T06:59:44.491Z	0.184704	-12.2	26.21555556	0
2022-09-18T07:01:32.294Z	0.106298182	-11.7	26.21454545	0
2022-09-18T07:03:20.097Z	0.156488727	-12.17272727	26.16272727	0
2022-09-18T07:05:07.900Z	0.1933344	-12.78	26.129	0
2022-09-18T07:06:55.703Z	0.178756364	-12.56363636	26.09	0
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2022-09-18T07:14:06.915Z	0.1491264	-12.52	25.932	0
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2022-09-18T07:19:30.324Z	0.073832727	-12.65454545	25.80727273	0
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2022-09-18T07:32:04.945Z	0.111010909	-12.19090909	25.54818182	0
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2022-09-18T07:41:03.960Z	0.147966545	-12.53636364	25.38727273	0

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2022-09-18T07:46:27.369	0.1521792	-12.14	25.258	0
2022-09-18T07:48:15.172	0.157038545	-12.63636364	25.23363636	0
2022-09-18T07:50:02.975	0.142455273	-12.5	25.20818182	0
2022-09-18T07:51:50.778	0.151998545	-12.43636364	25.15181818	0
2022-09-18T07:53:38.581	0.177866182	-12.31818182	25.10363636	0
2022-09-18T07:55:26.384	0.1969344	-12.12	25.049	0
2022-09-18T07:57:14.187	0.149262545	-12.45454545	25.03363636	0
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2022-09-18T08:02:37.596	0.1825632	-12.45	24.874	0
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2022-09-18T08:06:13.202	0.121968	-12.37272727	24.80363636	0
2022-09-18T08:08:01.005	0.132768	-12.40909091	24.76545455	0
2022-09-18T08:09:48.808	0.161869091	-12.34545455	24.70272727	0
2022-09-18T08:11:36.611	0.1498896	-12.32	24.655	0
2022-09-18T08:13:24.414	0.153543273	-12.51818182	24.61272727	0
2022-09-18T08:15:12.217	0.112594909	-12.22727273	24.56727273	0
2022-09-18T08:17:00.020	0.097147636	-12.55454545	24.52636364	0
2022-09-18T08:18:47.823	0.1255248	-12.57	24.478	0
2022-09-18T08:20:35.626	0.133972364	-12.71818182	24.43818182	0
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2022-09-18T08:24:11.232	0.138986182	-12.14545455	24.34636364	0
2022-09-18T08:25:59.035	0.132336	-12.39090909	24.29272727	0
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2022-09-18T08:31:22.444	0.088533818	-12.12727273	24.19272727	0
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2022-09-18T08:34:58.050	0.1381392	-12.67	24.097	0
2022-09-18T08:36:45.853	0.17136	-12.30909091	24.03727273	0
2022-09-18T08:38:33.656	0.111220364	-12.24545455	24.02	0
2022-09-18T08:40:21.459	0.117556364	-12.29090909	23.98545455	0
2022-09-18T08:42:09.262	0.110317091	-12.63636364	23.95727273	0
2022-09-18T08:43:57.065	0.143064	-12.22	23.896	0
2022-09-18T08:45:44.868	0.124520727	-12.19090909	23.88545455	0
2022-09-18T08:47:32.671	0.115723636	-12.37272727	23.86545455	0
2022-09-18T08:49:20.474	0.0763632	-12.19	23.837	0
2022-09-18T08:51:08.277	0.29672	-12.56666667	23.73333333	0
2022-09-18T08:52:56.080	0.48824	-12.63333333	23.65	0
2022-09-18T08:54:43.883	0.363979636	-12.84545455	23.64818182	0
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2022-09-18T09:14:29.716	0.275341091	-12.70909091	23.35	0
2022-09-18T09:16:17.519	0.270576	-12.17	23.332	0
2022-09-18T09:18:05.322	0.241553455	-12.48181818	23.32090909	0
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2022-09-18T09:23:28.731	0.393133091	-12.45454545	23.23454545	0
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2022-09-18T16:41:52.663Z	0.006624	-13.67272727	38.13545455	0
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2022-09-18T16:50:51.678Z	-0.064904727	-13.20909091	38.48363636	0
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2022-09-18T17:24:59.935Z	0.130123636	-12.38181818	39.89090909	0
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2022-09-18T19:00:13.494	0.1362384	-10.14	41.694	0
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2022-09-18T19:23:34.933	0.267591273	-10.45454545	41.75181818	0
2022-09-18T19:25:22.736	0.2702304	-10.22	41.73	0

2022-09-18T19:27:10.539Z	0.2102112	-10.01	41.743	0
2022-09-18T19:28:58.342Z	0.213408	-10.45	41.736	0
2022-09-18T19:30:46.145Z	0.2637072	-10.59	41.759	0
2022-09-18T19:32:33.948Z	0.2053296	-10.39	41.744	0
2022-09-18T19:34:21.751Z	0.129678545	-9.836363636	41.69636364	0
2022-09-18T19:36:09.554Z	0.082420364	-10.20909091	41.69363636	0
2022-09-18T19:37:57.357Z	0.326592	-10.75454545	41.66454545	0
2022-09-18T19:39:45.160Z	0.297569455	-10.45454545	41.66454545	0
2022-09-18T19:41:32.963Z	0.2863728	-10.82	41.681	0
2022-09-18T19:43:20.766Z	0.336528	-10.90909091	41.70090909	0
2022-09-18T19:45:08.569Z	0.283483636	-10.80909091	41.75909091	0
2022-09-18T19:46:56.372Z	0.195028364	-10.89090909	41.82	0
2022-09-18T19:48:44.175Z	0.253950545	-10.92727273	41.84545455	0
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2022-09-18T19:59:30.993Z	0.310372364	-11.77272727	42.25090909	0
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2022-09-18T20:06:42.205Z	0.1869984	-11.81	42.323	0
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2022-09-18T20:12:05.614Z	0.163400727	-12.46363636	42.36363636	0
2022-09-18T20:13:53.417Z	0.1616256	-11.76	42.344	0
2022-09-18T20:15:41.220Z	0.371178	-12.4	42.33875	0
2022-09-18T20:17:29.023Z	0.285106909	-12.50909091	42.42272727	0
2022-09-18T20:19:16.826Z	0.322141091	-12.28181818	42.48181818	0
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2022-09-18T20:24:40.235Z	0.240532364	-12.73636364	42.78545455	0
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2022-09-18T20:30:03.644Z	0.160599273	-13.44545455	43.09909091	0
2022-09-18T20:31:51.447Z	0.3612672	-12.86	43.136	0
2022-09-18T20:33:39.250Z	0.161424	-13.34545455	43.17272727	0
2022-09-18T20:35:27.053Z	0.147063273	-12.86363636	43.26636364	0
2022-09-18T20:37:14.856Z	0.171464727	-13.15454545	43.27090909	0
2022-09-18T20:39:02.659Z	0.2795184	-13.38	43.239	0
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2022-09-18T20:48:01.674Z	0.316296	-12.78	43.317	0
2022-09-18T20:49:49.477Z	0.333648	-12.85454545	43.35909091	0
2022-09-18T20:51:37.280Z	0.301405091	-13.84545455	43.41272727	0
2022-09-18T20:53:25.083Z	0.101899636	-13.32727273	43.42727273	0

2022-09-18T20:55:12.886	0.1736784	-13.5	43.557	0
2022-09-18T20:57:00.689	0.248229818	-13.75454545	43.62	0
2022-09-18T20:58:48.492	0.182225455	-13.66363636	43.73	0
2022-09-18T21:00:36.295	0.060192	-13.90909091	43.79454545	0
2022-09-18T21:02:24.098	0.313016727	-13.96363636	43.88181818	0
2022-09-18T21:04:11.901	0.1229616	-13.78	43.987	0
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2022-09-18T21:09:35.310	0.1319472	-13.8	44.167	0
2022-09-18T21:11:23.113	0.23256	-13.67777778	44.20333333	0
2022-09-18T21:13:10.916	0.1727712	-13.75	44.209	0
2022-09-18T21:14:58.719	0.157182545	-12.97272727	44.21727273	0
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2022-09-18T21:20:22.128	0.2000304	-13.42	44.05	0
2022-09-18T21:22:09.931	0.222061091	-13.75454545	44.08727273	0
2022-09-18T21:23:57.734	0.132126545	-13.90909091	44.16181818	0
2022-09-18T21:25:45.537	0.243412364	-13.64545455	44.17727273	0
2022-09-18T21:27:33.340	0.114506182	-13.69090909	44.18272727	0
2022-09-18T21:29:21.143	0.1186704	-13.91	44.203	0
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2022-09-18T21:32:56.749	0.217479273	-13.68181818	44.28545455	0
2022-09-18T21:34:44.552	0.202437818	-14.16363636	44.28818182	0
2022-09-18T21:36:32.355	0.2202624	-13.98	44.266	0
2022-09-18T21:38:20.158	0.114794182	-14.17272727	44.21818182	0
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2022-09-18T21:56:18.188	0.152888727	-14.05454545	44.40636364	0
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2022-09-18T22:05:17.203	0.192816	-14.1	44.13363636	0
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2022-09-18T22:12:28.415	0.098116364	-14.16363636	43.92363636	0
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2022-09-19T01:04:57.503	0.002840727	-11.57272727	34.19818182	0
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2022-09-19T10:29:07.645	0.1306512	-12.6	22.427	0
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2022-09-19T10:32:43.251	0.215424	-12.58181818	22.35909091	0
2022-09-19T10:34:31.054	0.223396364	-12.34545455	22.34363636	0
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2022-09-19T10:38:06.660	0.1204848	-12.14	22.352	0
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2022-09-19T10:43:30.069	0.159866182	-12.12727273	22.28090909	0
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2022-09-19T10:56:04.690	0.111953455	-12.52727273	22.24636364	0
2022-09-19T10:57:52.493	0.059589818	-12.38181818	22.26363636	0
2022-09-19T10:59:40.296	0.059799273	-12.57272727	22.26818182	0
2022-09-19T11:01:28.099	0.1525104	-12.15	22.239	0
2022-09-19T11:03:15.902	0.167432727	-12.82727273	22.25272727	0
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2022-09-19T11:06:51.508	0.1048464	-12.64	22.283	0
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2022-09-19T11:17:38.326	0.123800727	-12.82727273	22.39818182	0
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2022-09-19T11:40:59.765	0.122426182	-12.38181818	22.64272727	0
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2022-09-19T14:29:53.247	0.3253104	-13.67	26.086	0

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2022-09-19T14:38:52.262	0.2903904	-13.69	26.449	0
2022-09-19T14:40:40.065	0.345613091	-13.67272727	26.53727273	0
2022-09-19T14:42:27.868	0.332262	-13.1875	26.64125	0
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2022-09-19T14:51:26.883	0.283234909	-13.69090909	27.11	0
2022-09-19T14:53:14.686	0.2657664	-13.89	27.218	0
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2022-09-19T14:58:38.095	0.228357818	-13.61818182	27.59363636	0
2022-09-19T15:00:25.898	0.2955168	-14.11	27.688	0
2022-09-19T15:02:13.701	0.279739636	-14.14545455	27.86545455	0
2022-09-19T15:04:01.504	0.202621091	-14.60909091	28.05454545	0
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2022-09-19T15:23:47.337	0.291730909	-15.29090909	30.04	0
2022-09-19T15:25:35.140	0.294624	-14.88	30.203	0
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2022-09-19T15:41:45.367	0.218808	-15.92	31.939	0
2022-09-19T15:43:33.170	0.226184727	-16.06363636	32.14545455	0
2022-09-19T15:45:20.973	0.310974545	-15.25454545	32.30181818	0
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2022-09-19T15:50:44.382	0.2224224	-15.11	32.828	0
2022-09-19T15:52:32.185	0.332050909	-15.3	32.99	0
2022-09-19T15:54:19.988	0.236238545	-14.81818182	33.18181818	0
2022-09-19T15:56:07.791	0.29736	-15.08181818	33.35818182	0
2022-09-19T15:57:55.594	0.3825072	-15.28	33.513	0

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2022-09-19T16:01:31.200	0.344474182	-15.21818182	33.93272727	0
2022-09-19T16:03:19.003	0.267591273	-15.09090909	34.15181818	0
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2022-09-19T16:30:16.048	0.268488	-14.02	36.641	0
2022-09-19T16:32:03.851	0.305646545	-14.30909091	36.77636364	0
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2022-09-19T16:35:39.457	0.336449455	-14.27272727	37.02272727	0
2022-09-19T16:37:27.260	0.311773091	-13.90909091	37.13818182	0
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2022-09-19T16:44:38.472	0.323842909	-13.67272727	37.39636364	0
2022-09-19T16:46:26.275	0.444933818	-13.77272727	37.42363636	0
2022-09-19T16:48:14.078	0.442296	-13.43	37.476	0
2022-09-19T16:50:01.881	0.451806545	-13.23636364	37.50727273	0
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2022-09-19T16:53:37.487	0.752072727	-13.08181818	37.56909091	0
2022-09-19T16:55:25.290	0.970272	-13.21818182	37.60090909	0
2022-09-19T16:57:13.093	0.95616	-13.08	37.685	0
2022-09-19T16:59:00.896	0.850385455	-13.03636364	37.74363636	0
2022-09-19T17:00:48.699	0.889069091	-12.69090909	37.80181818	0
2022-09-19T17:02:36.502	0.795220364	-12.94545455	37.88636364	0
2022-09-19T17:04:24.305	0.6700176	-12.64	37.957	0
2022-09-19T17:06:12.108	0.911480727	-13.19090909	37.97727273	0
2022-09-19T17:07:59.911	0.786096	-13.21818182	38.05181818	0
2022-09-19T17:09:47.714	0.913313455	-12.73636364	38.11454545	0
2022-09-19T17:11:35.517	0.81108	-13.3	38.21	0



Test Report

Start Date: Saturday, September 17th, 2022, 4:06 PM MDT
End Date: Monday, September 19th, 2022, 11:13 AM MDT
Device: VB100-0046
Well Licensee: NMOCD
Well Name: Judy 3
UWI: 30-025-26262
Well License Number: 30-025-26262
Surface Location: Harrison
Bottom Hole Location: unknown

Test Operator: ces
Authorized By: NMOCD
Test Reason: IJJA PRE PLUG
Scope Of Work: 12-Hour
AFE Number: NMOCD038AA / APWS22.001
GPS: 32.14639,-103.20361
Notes: GTG

Flow Test

Average Flowrate

1.60

m3/d

20.56

g/ hour

Average Flow
Temperature**31.0**

°C

Average Flow
Pressure**-12.7**

kPag

Flow Duration

43.1

hours

Pressure Test

Maximum Shut-In Pressure

--

Last 24Hr Average Shut-In
Pressure

--

*Displays after 24hrs of stabilized shut-in pressure

Extrapolated Shut-In Pressure

--

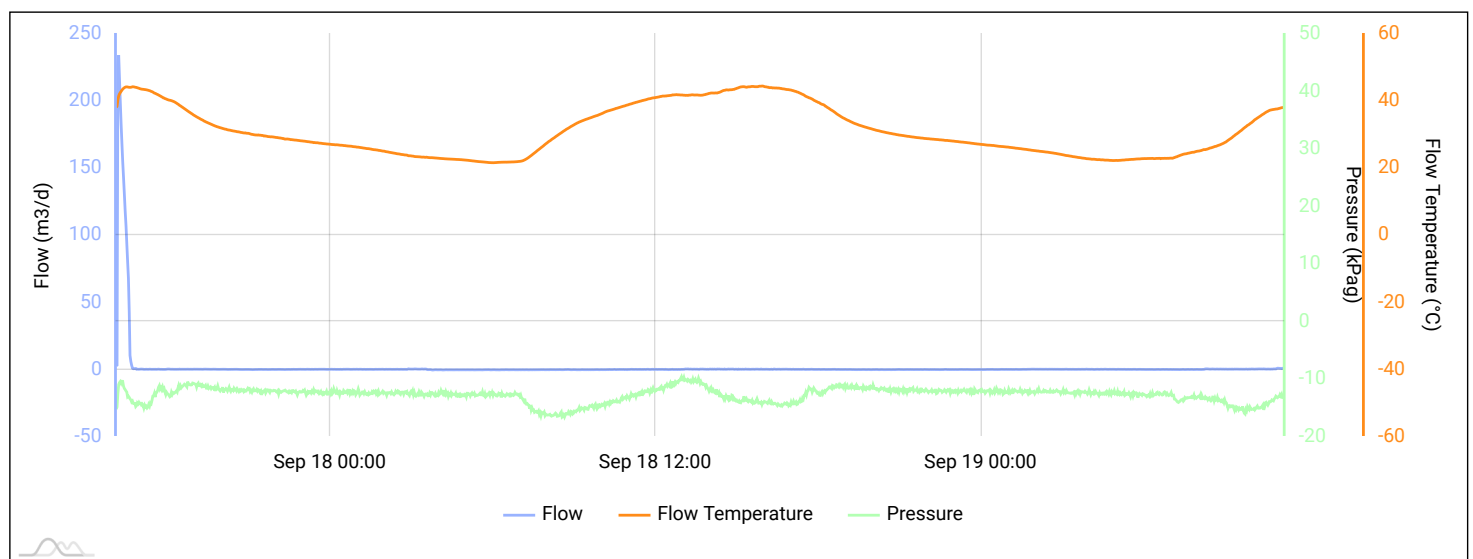
*Only valid for an unstable shut-in pressure

Shut-in Pressure Duration

0.0

hours

Flow/Pressure/Temperature Timeseries



Field Notes

Data Retention Time:

Testing data shall be stored on this web platform for a period of 6-months. It is strongly recommended that the User download and store the electronic PDF reports and CSV Data into their own database, immediately upon viewing.

Ventbuster Instruments Inc. Disclaimer:

The Ventbuster® is a high precision low flow vent gas meter. As it is deployed into testing conditions beyond our control, we are not liable for, or make warranties, as to the resultant test information. Any decisions or interpretations made from the test results are the sole responsibility and discretion of the User.

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C6+ Gas Analysis Report

14940G	Judy #3	Judy #3	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2022058129	Tedlar Bag	Client - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Sep 17, 2022 15:35	Sep 17, 2022 15:35	Sep 20, 2022 14:44	Sep 21, 2022
Date Sampled	Date Effective	Date Received	Date Reported
System Administrator			
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F Source Conditions
Well Done Foundation		NG	
Operator		Lab Source Description	

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0010	0.001	
Nitrogen (N2)	43.4140	43.414	
CO2 (CO2)	0.6440	0.644	
Methane (C1)	55.6680	55.669	
Ethane (C2)	0.2230	0.223	0.0600
Propane (C3)	0.0000	0	0.0000
I-Butane (IC4)	0.0000	0	0.0000
N-Butane (NC4)	0.0000	0	0.0000
I-Pentane (IC5)	0.0000	0	0.0000
N-Pentane (NC5)	0.0000	0	0.0000
Hexanes Plus (C6+)	0.0500	0.05	0.0220
TOTAL	100.0000	100.0010	0.0820

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

Analyzer Information			
Device Type:	Gas Chromatograph	Device Make:	Shimadzu
Device Model:	GC-2014	Last Cal Date:	Aug 14, 2022

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
570.8	561.9	572.1	563.2

Calculated Total Sample Properties	
GPA2145-16 *Calculated at Contract Conditions	
Relative Density Real	Relative Density Ideal
0.7424	0.7419
Molecular Weight	
21.4897	

C6+ Group Properties		
Assumed Composition		
C6 - 60.000%	C7 - 30.000%	C8 - 10.000%

Field H2S
5 PPM

PROTREND STATUS: Passed By Validator on Sep 22, 2022
DATA SOURCE: Imported

PASSED BY VALIDATOR REASON:
Close enough to be considered reasonable.

VALIDATOR:
Luis Cano
VALIDATOR COMMENTS:
ok

Source	Date	Notes
Luis Cano	Sep 22, 2022 8:06 am	Methane = 556,680 PPM



Weather in Hobbs, September 17

September 17, 2022

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	 +73°	+73°	26.4	S 13.4	62%
Morning	 +66°	+66°	26.4	S 10.1	87%
Day	 +91°	+91°	26.5	S 10.3	28%
Evening	 +84°	+84°	26.4	SE 14.1	28%

Bio-meteorological forecast

Meteorological sensitivity index	3	Meteosensitive people are likely to experience weather-related symptoms.
Geomagnetic conditions	2	Solar activity may affect some sensitive people.
Influence of solar activity	3	High risk of harm from unprotected sun exposure due to UV radiation.

September 17, 2021

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	 +68°	+68°	26.3	S 6.9	52%
Morning		+63°	26.3	S 6.5	67%

 +63°

Day		+93°	+93°	26.5	NW 6.5	17%
Evening		+88°	+88°	26.4	NE 10.5	17%

Bio-meteorological forecast

Meteorological sensitivity index	3	Meteosensitive people are likely to experience weather-related symptoms.
Geomagnetic conditions	2	Solar activity may affect some sensitive people.
Influence of solar activity	3	High risk of harm from unprotected sun exposure due to UV radiation.

September 17, 2020

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	 +63°	+63°	26.5	NE 7.4	78%
Morning	 +61°	+61°	26.5	NE 6	82%
Day	 +79°	+79°	26.6	NE 9.2	46%
Evening	 +75°	+75°	26.5	NE 6.9	39%

Bio-meteorological forecast

Meteorological sensitivity index	2	Some meteosensitive people may feel mild symptoms due to the weather.
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Geomagnetic conditions	1	Weak solar activity may affect some highly sensitive people.
Influence of solar activity	3	High risk of harm from unprotected sun exposure due to UV radiation.



Weather in Hobbs, September 18

September 18, 2022

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	 +73°	+73°	26.4	S 11.6	70%
Morning	 +66°	+66°	26.4	SE 11	86%
Day	 +90°	+90°	26.5	S 11.6	33%
Evening	 +84°	+84°	26.4	SE 13.9	40%

Bio-meteorological forecast

Meteorological sensitivity index	3	Meteosensitive people are likely to experience weather-related symptoms.
Geomagnetic conditions	2	Solar activity may affect some sensitive people.
Influence of solar activity	3	High risk of harm from unprotected sun exposure due to UV radiation.

September 18, 2021

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	 +70°	+70°	26.5	NE 6.7	48%
Morning		+63°	26.5	NE 5.8	68%

 +63°

Day		+90°	+90°	26.6	SE 8.7	25%
Evening		+82°	+82°	26.5	SE 9.4	32%

Bio-meteorological forecast

Meteorological sensitivity index	2	Some meteosensitive people may feel mild symptoms due to the weather.
Geomagnetic conditions	1	Weak solar activity may affect some highly sensitive people.
Influence of solar activity	3	High risk of harm from unprotected sun exposure due to UV radiation.

September 18, 2020

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	 +64°	+64°	26.5	E 6	72%
Morning	 +57°	+57°	26.5	NE 7.2	77%
Day	 +81°	+81°	26.7	E 10.1	39%
Evening	 +75°	+75°	26.6	E 11.2	40%

Bio-meteorological forecast

Meteorological sensitivity index	2	Some meteosensitive people may feel mild symptoms due to the weather.
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Geomagnetic conditions	1	Weak solar activity may affect some highly sensitive people.
Influence of solar activity	3	High risk of harm from unprotected sun exposure due to UV radiation.



Weather in Hobbs, September 19

September 19, 2022

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	 +73°	+73°	26.5	S 9.4	64%
Morning	 +64°	+64°	26.4	SE 10.5	90%
Day	 +86°	+86°	26.5	S 13.2	42%
Evening	 +82°	+82°	26.5	SE 13.4	45%

Bio-meteorological forecast

Meteorological sensitivity index	3	Meteosensitive people are likely to experience weather-related symptoms.
Geomagnetic conditions	2	Solar activity may affect some sensitive people.
Influence of solar activity	3	High risk of harm from unprotected sun exposure due to UV radiation.

September 19, 2021

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	 +70°	+70°	26.4	SE 7.4	54%
Morning		+61°	26.4	E 6.5	68%

 +61°

Day		+90°	+90°	26.5	S	11.4	24%
Evening		+84°	+84°	26.3	S	9.8	21%

Bio-meteorological forecast

Meteorological sensitivity index	2	Some meteosensitive people may feel mild symptoms due to the weather.
Geomagnetic conditions	1	Weak solar activity may affect some highly sensitive people.
Influence of solar activity	3	High risk of harm from unprotected sun exposure due to UV radiation.

September 19, 2020

	Atmospheric conditions and temperature °F	RealFeel °F	Atmospheric pressure inHg	Wind speed mph	Humidity
Night	 +63°	+63°	26.5	E 6	67%
Morning	 +54°	+54°	26.5	E 5.8	72%
Day	 +81°	+81°	26.6	SE 8.3	41%
Evening	 +73°	+73°	26.5	SE 9.8	40%

Bio-meteorological forecast

Meteorological sensitivity index	2	Some meteosensitive people may feel mild symptoms due to the weather.
----------------------------------	---	---

Geomagnetic conditions	1	Weak solar activity may affect some highly sensitive people.
Influence of solar activity	3	High risk of harm from unprotected sun exposure due to UV radiation.

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 158461

CONDITIONS

Operator: PRIMAL ENERGY CORPORATION 211 Highland Cross Houston, TX 77073	OGRID: 154303
	Action Number: 158461
	Action Type: [IM-SD] Well File Support Doc (ENV) (IM-BWF)

CONDITIONS

Created By	Condition	Condition Date
jgriswold	None	11/14/2022