

# RAILROAD COMMISSION OF TEXAS

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Oil and Gas Division

API No. **42- 163-33447**

7. RRC District No.

**01**

8. RRC Gas ID No.

## Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat) <b>INDIO TANKS (PEARSALL)</b>		2. LEASE NAME <b>ALINE WILLIAMS UNIT B</b>		9. Well No. <b>1H</b>	
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) <b>CHEYENNE PETROLEUM COMPANY</b>			RRC Operator No. <b>148108</b>		10. County of well site <b>FRIO</b>
4. ADDRESS <b>SUITE 2200 14000 QUAIL SPRINGS PKWY OKLAHOMA CITY, OK 73134-0000</b>					11. Purpose of filing Initial Potential <input checked="" type="checkbox"/> Retest <input type="checkbox"/> Reclass <input type="checkbox"/> Well record only (Explain in remarks) <input type="checkbox"/>
5. Location (Section, Block, and Survey) <b>14, BS&amp;F / LEE, J E, A-1374</b>			5b. Distance and direction to nearest town in this county. <b>19 MILES E OF DILLEY</b>		
6. If operator has changed within last 60 days, name former operator					
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. <b>FIELD &amp; RESERVOIR</b>			GAS ID or OIL LEASE #		Oil-0 Gas-G
<b>N/A</b>					Well #

13. Pipe Line Connection <b>SIWPL</b>		14. Completion or recompletion date <b>05/20/2012</b>		15. Any condensate on hand at time of workover or recompletion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		16. Type of Electric or other Log Run. <b>Gamma Ray (MWD)</b>	
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Section I GAS MEASUREMENT DATA											
Date of Test <b>06/05/2012</b>		Gas Measurement Method (Check One) Orifice Meter <input checked="" type="checkbox"/> <input type="checkbox"/> Flange Taps <input checked="" type="checkbox"/> <input type="checkbox"/> Pipe Taps <input checked="" type="checkbox"/> <input type="checkbox"/> Positive Choke <input type="checkbox"/> Orifice Vent Meter <input type="checkbox"/> Pitot Tube <input type="checkbox"/> Critical-flow Prover <input type="checkbox"/>						Gas produced during test <b>3785</b> MCF			
Run Size	Line Size	Orif. or Choke Size	24 hr Coeff. Orif. or Choke	Static Pm or Choke Press	Diff h <sub>w</sub>	Flow Temp. ° F	Temp. Factor F <sub>tf</sub>	Gravity Factor F <sub>g</sub>	Compress Factor F <sub>pv</sub>	Volume MCF/DAY	
1	3.826	0.750	3525.12	767.0	215.0	84.0	0.9777	0.9325	1.078	1408.0	
2											
3											
4											

Section II FIELD DATA AND PRESSURE CALCULATIONS					
Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
0.69	55.1 Deg. API	7147 CF/Bbl	G <sub>mix</sub> = 1.017	74.0 ° F	240.0 ° F @ 16745.0 (Depth)
$D_{eff}^{8/3} = \sqrt{T_f} = \sqrt{\quad} = \quad$		$\sqrt{GL} = \sqrt{\quad} = \quad$			
$C = \frac{1118 x (D_{eff})^{8/3}}{\sqrt{T}} = \quad$		$\frac{\sqrt{GL}}{C} = \quad = \quad$			

Run No.	Time of Run Min	Choke Size	Wellhead Press. PSIA P <sub>w</sub>	Wellhead Flow Temp ° F	P <sub>w</sub> <sup>2</sup> (Thousands)	R	R <sup>2</sup> (Thousands)	P <sub>1</sub>	P <sub>w</sub> / P <sub>1</sub>
Shut-in	0	10	3865	74.0					
1	4320	10	2290	94.0					
2									
3									
4									
Run No.	F	K	S = 1/Z	E <sup>ks</sup>	P <sub>f</sub> and P <sub>s</sub>	P <sub>f</sub> <sup>2</sup> and P <sub>s</sub> <sup>2</sup> (Thousands)	P <sub>f</sub> <sup>2</sup> - P <sub>s</sub> <sup>2</sup> (Thousands)	Angle of Slope	
Shut-in								θ .....	
1								n .....	
2								Absolute Open Flow	
3								..... MCF/DAY	
4									

WELL TESTERS CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

**SONNY WHITEFIELD**

**MI SWACO?PTS**

Signature: Well Tester

Name of Company

RRC Representative

OPERATORS CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I or prepared supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

**CHEYENNE PETROLEUM COMPANY**

**Sheryl Bobbitt**

Signature: Operator's representative

Title

**07/16/2012**

Date

Tel: **(405) 463-5408**

A/C

Number

SECTION III DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

17. Type of Completion New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Plug Back <input type="checkbox"/> Other <input checked="" type="checkbox"/>				18. Permit to Drill, Plug Back or Deepen DATE: 11/23/2011 PERMIT NO.: 709655 Rule 37 Exception CASE NO.:	
19. Notice of Intention to Drill this well was filed in Name of <b>CHEYENNE PETROLEUM COMPANY</b>				Water Injection Permit PERMIT NO.	
20. Number of producing wells on this lease in this field (reservoir) including this well 1		21. Total number of acres in this lease 803.8		Salt Water Disposal Permit PERMIT NO.	
22. Date Plug Back, Deepening, Workover or Drilling Operations: Commenced: 01/11/2012 Completed: 02/25/2012		23. Distance to nearest well, Same Lease & Reservoir 0.0			

24. Location of well, relative to nearest lease boundaries  
 332.0 Feet From South Line and 983.0 Feet from NE Line of the ALINE WILLIAMS UNIT B Lease

25. Elevation (DF, RKB, RT, GR ETC.)  
 446 GL

26. Was directional survey made other than inclination (Form W-12)?  Yes  No

27. Top of Pay 11297 MD:11496	28. Total Depth 11422 MD:16966	29. P. B. Depth 11422 MD:16965	30. Surface Casing Determined by Field Rules <input type="checkbox"/>	Recommendation of T.D.W.R. <input checked="" type="checkbox"/> Railroad Commission (Special) <input type="checkbox"/>	Dt. of Letter 02/04/2011 Dt. of Letter
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31. Is well multiple completion?  
 Yes  No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No. FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil-0 Gas-G	Well #
N/A			

33. Intervals Drilled by: Rotary Tools <input checked="" type="checkbox"/> Cable Tools	34. Name of Drilling Contractor ENSIGN	35. Is Cementing Affidavit Attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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36. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
10 3/4	45.5	3245		CLASS A 2130	14 3/4	SURFACE	3638.2
7 5/8	29.7	11692		CLASS H 1355	9 3/4	8236	2109.5

37. LINER RECORD

Size	Top	Bottom	Sacks Cement	Screen

38. TUBING RECORD			39. Producing Interval (this completion) Indicate depth of perforation or open hole	
Size	Depth Set	Packer Set	From	To
2 3/8	10980	10980	L1 16735	16745
			L1 16463	16473
			L1 16191	16201
			L1 15918	15928
			L1 15645	15655
			L1 15359	15369
			L1 15071	15081
			L1 14780	14790
			L1 14493	14503
			L1 14229	14239
			L1 13943	13953
			L1 13655	13665
			L1 13381	13391
			L1 13089	13099
			L1 12812	12822
			L1 12521	12531
			L1 12216	12226
			L1 11935	11945

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE. ETC.		
Depth Interval		Amount and Kind of Material Used
16735.0	16745.0	3,876 BBL FUIILD, 79,758 GAL 37# BORATE CROSSLINKED GEL, 37,320 GAL 37# LINER GEL, 45,698 GAL SLICK WATER, 2,520 GAL 15% HCL, 52,500 LB 20/40 CARBO PROP PROPPANT
16463.0	16473.0	4,536 BBL FUIILD, 132,468 GAL 37# BORATE CROSSLINKED GEL, 25,494 GAL 37# LINER GEL, 32,537 GAL SLICK WATER, 2,229 GAL 15% HCL, 151,165 LB 20/40 CARBO PROP PROPPANT
16191.0	16201.0	3,357 BBL FUIILD, 96,218 GAL 37# BORATE CROSSLINKED GEL, 12,793 GAL 37# LINER GEL, 31,991 GAL SLICK WATER, 2,123 GAL 15% HCL, 108,570 LB 20/40 CARBO PROP PROPPANT
15918.0	15928.0	4,026 BBBL FUIILD, 1032782GAL 37# BORATE CROSSLINKED GEL, 14,280 GAL 37# LINER GEL, 510431 GAL SLICK WATER, 2,003 GAL 15% HCL, 108,670 LB 20/40 CARBO PROP PROPPANT
15645.0	15655.0	5,430 BBL FUIILD, 154,014 GAL 37# BORATE CROSSLINKED GEL, 24,318 GAL 37# LINER GEL, 49,728 GAL SLICK WATER, 2,184 GAL 15% HCL, 7,114 LB 20/40 CARBO PROP PROPPANT
15359.0	15369.0	4,402 BBL FUIILD, 63,882 GAL 37# BORATE CROSSLINKED GEL, 38,695 GAL 37# LINER GEL, 82,316 GAL SLICK WATER, 627633 GAL 15% HCL, 2,700 LB 20/40 CARBO PROP PROPPANT
15071.0	15081.0	5,999 BBL FUIILD, 128,982 GAL 37# BORATE CROSSLINKED GEL, 72,047 GAL 37# LINER GEL, 50,942 GAL SLICK WATER, 2,123 GAL 15% HCL, 108,570 LB 20/40 CARBO PROP PROPPANT
14780.0	14790.0	7,178 BBL FUIILD, 256,385 GAL 37# BORATE CROSSLINKED GEL, 13,814 GAL 37# LINER GEL, 31,269 GAL SLICK WATER, 2,318 GAL 15% HCL, 10,000 LB 20/40 CARBO PROP PROPPANT
14493.0	14503.0	2,516 BBL FUIILD, 77,028 GAL 37# BORATE CROSSLINKED GEL, 966 GAL 37# LINER GEL, 27,678 GAL SLICK WATER, 1,596 GAL 15% HCL, 28,000 LB 20/40 CARBO PROP PROPPANT
14229.0	14239.0	2,578 BBL FUIILD, 25,872 GAL 37# BORATE CROSSLINKED GEL, 27,930 GAL 37# LINER GEL, 54,470 GAL SLICK WATER, 2,865 GAL 15% HCL, 500 LB 30/50 APC PROPPANT
13943.0	13953.0	9,696 BBL FUIILD, 181,272 GAL 37# BORATE CROSSLINKED GEL, 135,513 GAL 37# LINER GEL, 90,430 GAL SLICK WATER, 3,599 GAL 15% HCL, 2,500 LB 20/40 CARBO PROP PROPPANT, 11,000 LB 30/50 APC PROPPANT
13655.0	13665.0	5,797 BBL FUIILD, 74,256 GAL 37# BORATE CROSSLINKED GEL, 16,036 GAL 37# LINER GEL, 153,199 GAL SLICK WATER, 3,000 GAL 15% HCL, 5,724 LB 20/40 CARBO PROP PROPPANT, 57,000 LB 30/50 APC PROPPANT
13381.0	13391.0	38587 BBL FUIILD, 114,950 GAL 37# BORATE CROSSLINKED GEL, 19,135 GAL 37# LINER GEL, 27,930 GAL SLICK WATER, 3,200 GAL 15% HCL, 35,032 LB 30/50 CARBO PROP PROPPANT
13089.0	13099.0	4,207 BBL FUIILD, 145,110 GAL 37# BORATE CROSSLINKED GEL, 12,793 GAL 37# LINER GEL, 31,991 GAL SLICK WATER, 2,123 GAL 15% HCL, 108,570 LB 20/40 CARBO PROP PROPPANT
12812.0	12882.0	4,514 BBL FUIILD, 143,812 GAL 37# BORATE CROSSLINKED GEL, 25,553 GAL 37# LINER GEL, 20,202 GAL SLICK WATER, 1,520 GAL 15% HCL, 75,000 LB 20/40 CARBO PROP PROPPANT, 56,380 LB 30/50 APC PROPPANT
12521.0	12531.0	4,131 BBL FUIILD, 129,427 GAL 37# BORATE CROSSLINKED GEL, 22,407 GAL 37# LINER GEL, 21,672 GAL SLICK WATER, 1,858 GAL 15% HCL, 40,237 LB 20/40 CARBO PROP PROPPANT, 45,880 30/50 APC PROPPANT
12216.0	12226.0	7,824 BBL FUIILD, 282,265 GAL 37# BORATE CROSSLINKED GEL, 24,360 GAL 37# LINER GEL, 21,966 GAL SLICK WATER, 2,434 GAL 15% HCL, 153,972 LB 20/40 CARBO PROP PROPPANT
11935.0	11945.0	7,478 BBL FUIILD, 249,774 GAL 37# BORATE CROSSLINKED GEL, 29,316 GAL 37# LINER GEL, 34,986 GAL SLICK WATER, 3,183 GAL 15% HCL, 140,750 LB 20/40 CARBO PROP PROPPANT, 12105 LB 30/50 APC PROPPANT

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)			
Formations	Depth	Formations	Depth
AUSTIN CHALK	7879.0 MD: 7883.0		
GEORGTOWN	8498.0 MD: 8502.0		
PEARSALL	11297.0 MD: 11302.0		
REMARKS: THIS IS SIDE TRACK OF ALINE WILLIAMS 1H (TRACKING # 26279) FOR WHICH NAME WAS CHANGED.			

