

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GRIFFIN 'A' #6 Test No. 1 Date 5/9/93
Company OXY USA, INC. Zone ARBUCKLE
Address 110 S MAIN #800 WICHITA KS 67202 Elevation 2189
Co. Rep./Geo. JIM NOWELL/STEVE DAVIS Cont. ABERCROMBIE #8 Est. Ft. of Pay _____
Location: Sec. 27 Twp. 5S Rge. 20W Co. PHILLIPS State KS

Interval Tested	<u>3566-3575</u>	Drill Pipe Size	<u>4.5" FH</u>
Anchor Length	<u>9</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>620</u>
Top Packer Depth	<u>3561</u>	Drill Collar - 2.25 Ft. Run	_____
Bottom Packer Depth	<u>3566</u>	Mud Wt.	<u>9.5</u> lb/Gal.
Total Depth	<u>3575</u>	Viscosity	<u>43</u>
		Filtrate	<u>10.4</u>

Tool Open @ 12:19 AM Initial Blow WEAK BLOW - SLOW INCREASE TO 4 1/2"

Final Blow WEAK TO FAIR BLOW - 1 - 6" IN WATER

Recovery - Total Feet 115 Flush Tool? NO

Rec. <u>165</u>	Feet of	<u>GAS IN PIPE</u>
Rec. <u>80</u>	Feet of	<u>CLEAN GASSY OIL 5%GAS/95%OIL</u>
Rec. <u>35</u>	Feet of	<u>OIL CUT WATERY MUD 5%GAS/15%OIL/18%WATER/62%MUD</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 109 °F Gravity 34 °API @ 78 °F Corrected Gravity 32.8 °API
RW _____ @ _____ °F Chlorides 1500 ppm Recovery Chlorides 1000 ppm System

(A) Initial Hydrostatic Mud 1836.5 PSI AK1 Recorder No. 13278 Range 4400

(B) First Initial Flow Pressure 21.3 PSI @ (depth) 3572 w / Clock No. 22993

(C) First Final Flow Pressure 45.6 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 697.1 PSI @ (depth) 3567 w / Clock No. 30410

(E) Second Initial Flow Pressure 49.6 PSI AK1 Recorder No. _____ Range _____

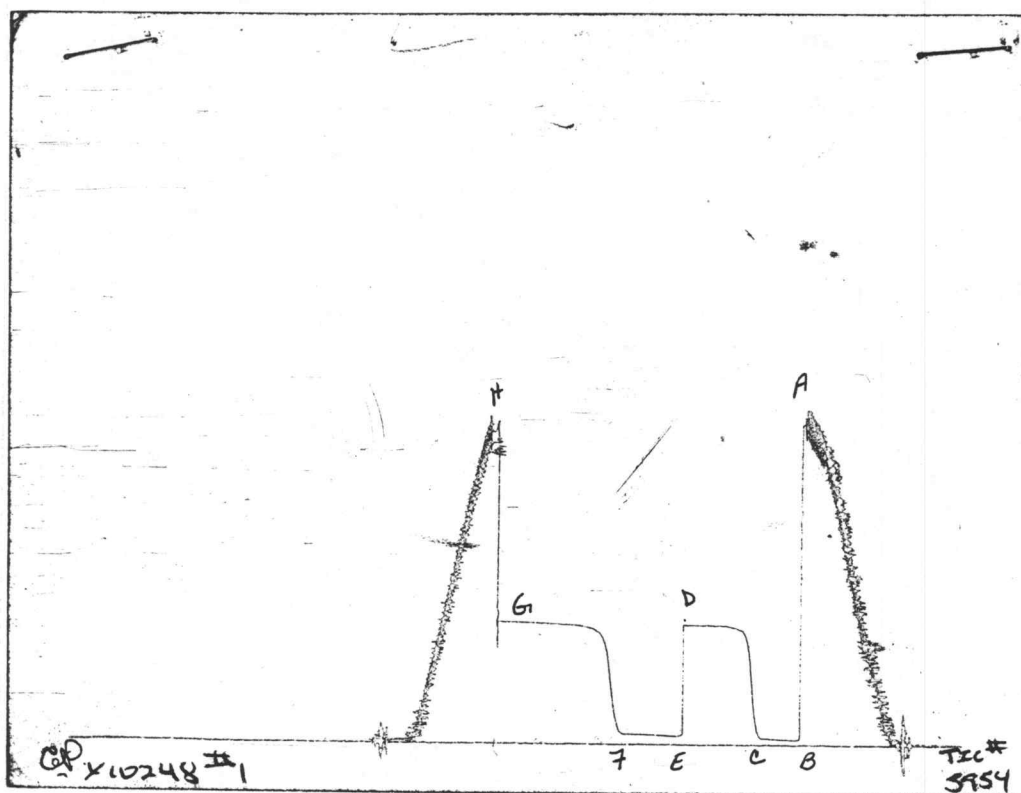
(F) Second Final Flow Pressure 72.5 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 706.4 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1799.3 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative GARY PEVOTEAUX

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1832	1836.5
(B) FIRST INITIAL FLOW PRESSURE	18	21.3
(C) FIRST FINAL FLOW PRESSURE	38	45.6
(D) INITIAL CLOSED-IN PRESSURE	694	697.1
(E) SECOND INITIAL FLOW PRESSURE	43	49.6
(F) SECOND FINAL FLOW PRESSURE	69	72.5
(G) FINAL CLOSED-IN PRESSURE	701	706.4
(H) FINAL HYDROSTATIC MUD	1797	1799.3

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Test Ticket

No 5954

Well Name & No. <u>GRIFFIN "A" #6 AFB</u>	Test No. <u>1</u>	Date <u>5-9-93</u>
Company <u>OXY U.S.A. Inc.</u>	Zone Tested <u>ARBURLE</u>	
Address <u>OKLAHOMA CITY OK.</u>	Elevation <u>2189 K.B.</u>	
Co. Rep./Geo. <u>Jim Newell / STEVE DAVIS</u>	Cont. <u>ABERROMBIE DRILLING</u>	Est. Ft. of Pay <u></u>
Location: Sec. <u>27</u> Twp. <u>S5</u> Rge. <u>20W</u>	Co. <u>PHILLIPS</u>	State <u>KS.</u>
No. of Copies <u></u>	Distribution Sheet <u></u>	Yes <u></u> No <u></u> Turnkey <u></u> Yes <u></u> No <u></u> Evaluation <u></u>

Interval Tested <u>3566 - 3575'</u>	Drill Pipe Size <u>4 1/2" X.H.</u>
Anchor Length <u>9'</u>	Top Choke — 1" <u>✓</u> Bottom Choke — 3/4" <u>✓</u>
Top Packer Depth <u>3561'</u>	Hole Size — 7 7/8" <u>✓</u> Rubber Size — 6 3/4" <u>✓</u>
Bottom Packer Depth <u>3566'</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>620'</u>
Total Depth <u>3575'</u>	Drill Collar — 2.25 Ft. Run <u>NONE</u>
Mud Wt. <u>9.5</u> lb/gal.	Viscosity <u>43</u> Filtrate <u>10.4 cc.</u>
Tool Open @ <u>12:19 A.M.</u>	Initial Blow <u>Weak below. (slow increase to 4 1/2" in H₂O)</u>
Final Blow <u>Weak to fair below. (1 - 6" in H₂O)</u>	

Recovery — Total Feet <u>115'</u>	Feet of Gas in Pipe <u>165</u>	Flush Tool? <u>No</u>
Rec. <u>80</u> Feet Of <u>Clean gray oil.</u>	5% gas <u>95</u> % oil <u></u> % water <u></u> % mud <u></u>	
Rec. <u>35</u> Feet Of <u>O.C.W.M.O</u>	5% gas <u>15</u> % oil <u>18</u> % water <u>62</u> % mud <u></u>	
Rec. <u></u> Feet Of <u></u>	% gas <u></u> % oil <u></u> % water <u></u> % mud <u></u>	
Rec. <u></u> Feet Of <u></u>	% gas <u></u> % oil <u></u> % water <u></u> % mud <u></u>	
Rec. <u></u> Feet Of <u></u>	% gas <u></u> % oil <u></u> % water <u></u> % mud <u></u>	

BHT <u>109</u> °F	Gravity <u>34</u>	°API @ <u>78</u>	°F Corrected Gravity <u>32.8</u>	°API <u></u>
RW <u>N.A.</u> @ <u></u> °F	Chlorides <u>1,500</u> ppm	Recovery <u></u>	Chlorides <u>1,000</u> ppm	System <u></u>
(A) Initial Hydrostatic Mud <u>1832</u>	PSI	AK1 Recorder No. <u>13278</u>	Range <u>4400</u>	
(B) First Initial Flow Pressure <u>18</u>	PSI	@ (depth) <u>3572'</u>	w/Clock No. <u>22993</u>	
(C) First Final Flow Pressure <u>38</u>	PSI	AK1 Recorder No. <u>10248</u>	Range <u>4400</u>	
(D) Initial Shut-In Pressure <u>694</u>	PSI	@ (depth) <u>3567'</u>	w/Clock No. <u>30410</u>	
(E) Second Initial Flow Pressure <u>43</u>	PSI	AK1 Recorder No. <u></u>	Range <u></u>	
(F) Second Final Flow Pressure <u>69</u>	PSI	@ (depth) <u></u>	w/Clock No. <u></u>	
(G) Final Shut-In Pressure <u>701</u>	PSI	Initial Opening <u>30</u>	Test <u>✓</u>	
(H) Final Hydrostatic Mud <u>1797</u>	PSI	Initial Shut-In <u>60</u>	Jars <u></u>	

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Final Flow <u>45</u>	Safety Joint <u></u>
Final Shut-In <u>90</u>	Straddle <u></u>
	Circ. Sub <u></u>
	Sampler <u></u>
	Extra Packer <u></u>
	Other <u></u>
TOTAL PRICE \$ <u>✓ 600.00</u>	

Approved By [Signature]

Our Representative [Signature]

TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

Well Name GRIFFIN 'A' #6 Test No. 2 Date 5/9/93
OXY USA, INC. Zone REAGAN SD
Company 110 S MAIN #800 WICHITA KS 67202 Elevation 2189
Address JIM NOWELL/STEVE DAVIS Cont. ABERCROMBIE #8 Est. Ft. of Pay _____
Co. Rep./Geo. 27 5S Rge. 20W Co. PHILLIPS State KS
Location: Sec. _____ Twp. _____

Interval Tested 3622-3628
Anchor Length 6
Top Packer Depth 3617
Bottom Packer Depth 3622
Total Depth 3628

Drill Pipe Size 4.5" FH
Wt. Pipe I.D. - 2.7 Ft. Run 620
Drill Collar - 2.25 Ft. Run _____
Mud Wt. 9.6 lb/Gal.
Viscosity 60 Filtrate 9.6

Tool Open @ 2:20 PM Initial Blow VERY STRONG BLOW - BOTTOM OF BUCKET IN 5 SECONDS
Final Blow STRONG BLOW - BOTTOM OF BUCKET IN 15 SECONDS

Recovery - Total Feet 2160 Flush Tool? NO

Rec. 60 Feet of MUDDY WATER WITH OIL SPECKS 80%WATER/20%MUD
Rec. 1980 Feet of SALT WATER
Rec. 120 Feet of WATERY MUD 40%WATER 60%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 112 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.16 @ 74 °F Chlorides 49000 ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 1859.3 PSI AK1 Recorder No. 13278 Range 4400
(B) First Initial Flow Pressure 346.1 PSI @ (depth) 3625 w / Clock No. 22993
(C) First Final Flow Pressure 729.4 PSI AK1 Recorder No. 10248 Range 4400
(D) Initial Shut-in Pressure 997.6 PSI @ (depth) 3612 w / Clock No. 30410
(E) Second Initial Flow Pressure 771.2 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 989.3 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 997.6 PSI Initial Opening 15 Final Flow 45
(H) Final Hydrostatic Mud 1826.9 PSI Initial Shut-in 30 Final Shut-in 60

Our Representative GARY PEVOTEAUX

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Test Ticket

No 5955

Well Name & No. GRIFFIN "A" #6 AFE Test No. 2 Date 5-9-93
 Company OXY U.S.A. INC. Zone Tested REAGAN SD.
 Address OKLAHOMA CITY OK. Elevation 2189 K.B.
 Co. Rep./Geo. JIM NEWELL / STEVE DAVIS Cont. ABERCROMBIE DRUG #8 Est. Ft. of Pay _____
 Location: Sec. 27 Twp. 5 S Rge. 20 W Co. PHILLIPS State KS.
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 3622 - 3628' Drill Pipe Size 4 1/2" x .11
 Anchor Length 6' Top Choke — 1" ✓ Bottom Choke — 3/4" ✓
 Top Packer Depth 3617' Hole Size — 77/8" ✓ Rubber Size — 63/4" ✓
 Bottom Packer Depth 3622' Wt. Pipe I.D. — 2.7 Ft. Run 620'
 Total Depth 3628' Drill Collar — 2.25 Ft. Run NONE
 Mud Wt. 9.6 lb/gal. Viscosity 60 Filtrate 9.6 cc
 Tool Open @ 2:20 P.M. Initial Blow Very strong blow. (Litter of bucket in 5 seconds)
 Final Blow Strong blow. (Litter of bucket in 15 sec.)

Recovery — Total Feet 2160' Feet of Gas in Pipe NONE
 Rec. 60 Feet Of M.W. (oil spec) %gas _____ %oil 80 %water 20 %mud _____
 Rec. 1980 Feet Of Salt Water %gas _____ %oil _____ %water _____ %mud _____
 Rec. 120 Feet Of W.M. %gas _____ %oil 40 %water 60 %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 112° °F Gravity N.A. °API @ _____ °F Corrected Gravity N.A. °API
 RW 0.16 @ 74 °F Chlorides 49,000 ppm Recovery Chlorides 2,000 ppm System

(A) Initial Hydrostatic Mud 1850 PSI AK1 Recorder No. 13278 Range 4400
 (B) First Initial Flow Pressure 341 PSI @ (depth) 3625' W/Clock No. 22993
 (C) First Final Flow Pressure 725 PSI AK1 Recorder No. 10248 Range 4400
 (D) Initial Shut-In Pressure 993 PSI @ (depth) AP 3612' W/Clock No. 30410
 (E) Second Initial Flow Pressure 767 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 986 PSI @ (depth) _____ Range _____
 (G) Final Shut-In Pressure 993 PSI Initial Opening 15 Test ✓ 600°
 (H) Final Hydrostatic Mud 1821 PSI Initial Shut-In 30 Jars _____
 Final Flow 45 Safety Joint _____
 Final Shut-In 60 Straddle _____

Approved By [Signature]
 Our Representative [Signature]
 Printcraft Printers - Hays, KS

Circ. Sub ✓ 3500
 Sampler _____
 Extra Packer _____
 Other _____

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