

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name MODIE #5-31 Test No. 1 Date 1/18/92
Company BEREXCO INC Zone Tested MORROW
Address 970 FINANCIAL CENTER WICHITA KANSAS Elevation 3318
Co. Rep./Geo. ED GRIEVES Cont. BEREDCO RIG #2 Est. Ft. of Pay 12
Location: Sec. 31 Twp. 22S Rge. 31W Co. KEARNY State KS

Interval Tested 4700-4736 Drill Pipe Size 4.5 XH
Anchor Length 36 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4695 Drill Collar - 2.25 Ft. Run 631
Bottom Packer Depth 4700
Total Depth 4736

Mud Wt. 8.9 lb / gal. Viscosity 51 Filtrate 8.8

Tool Open @ 10:08 AM Initial Blow BLOW OFF BOTTOM IN 45 SECONDS

Final Blow WEAK BLOW IN 10 MINUTES-DIED OFF-FLUSHED TOOL-WEAK
BLOW TO 2" IN 30 MINUTES

Recovery — Total Feet 339 Flush Tool? YES

Rec. 1133 Feet of GAS IN PIPE

Rec. 60 Feet of GAS & OIL CUT MUD-2%GAS/1%OIL/97%MUD

Rec. 93 Feet of GAS & OIL CUT MUD-5%GAS/5%OIL/90%MUD

Rec. 186 Feet of GAS & OIL CUT MUD-10%GAS/5%OIL/85%MUD

Rec. _____ Feet of _____

BHT 120 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1900 ppm System

(A) Initial Hydrostatic Mud 2337.4 PSI Ak1 Recorder No. 13308 Range 4700

(B) First Initial Flow Pressure 142.7 PSI @ (depth) 4702 w/Clock No. 27567

(C) First Final Flow Pressure 154.7 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 159.1 PSI @ (depth) 4731 w/Clock No. 14389

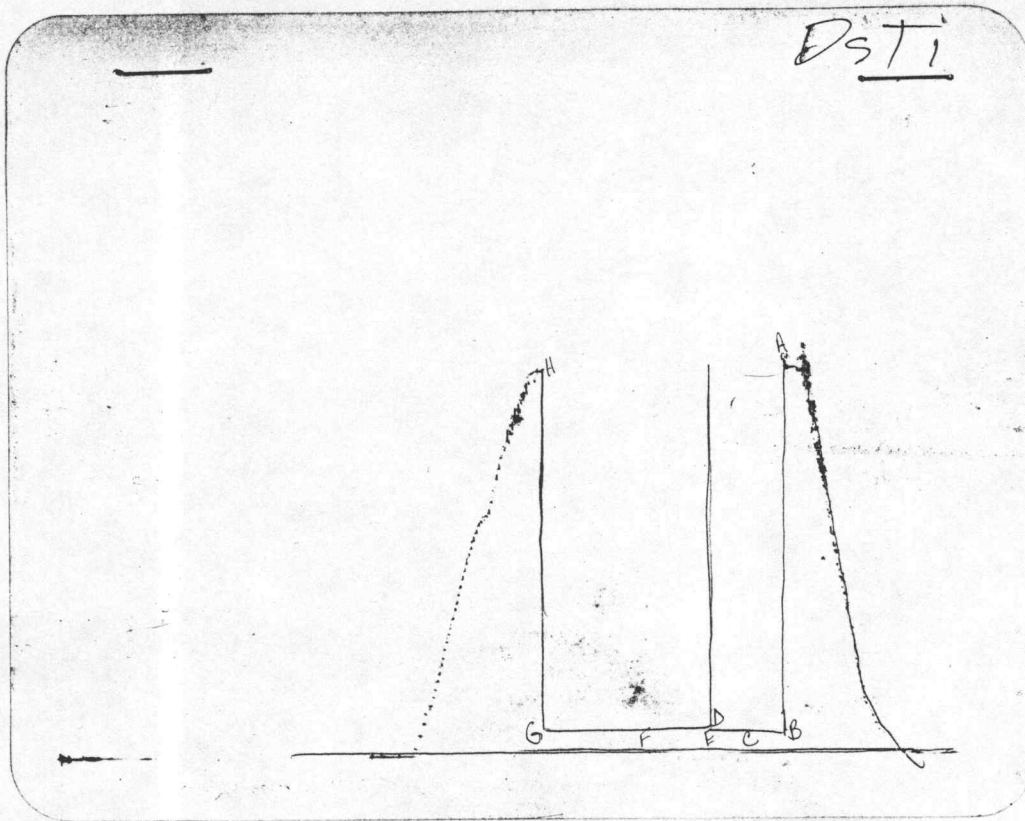
(E) Second Initial Flow Pressure 159.1 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 176.2 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 169 PSI Initial Opening 15 Final Flow 40

(H) Final Hydrostatic Mud 2289.9 PSI Initial Shut-in 30 Final Shut-in 93

Our Representative MARK HERSKOWITZ TOTAL PRICE \$ 800

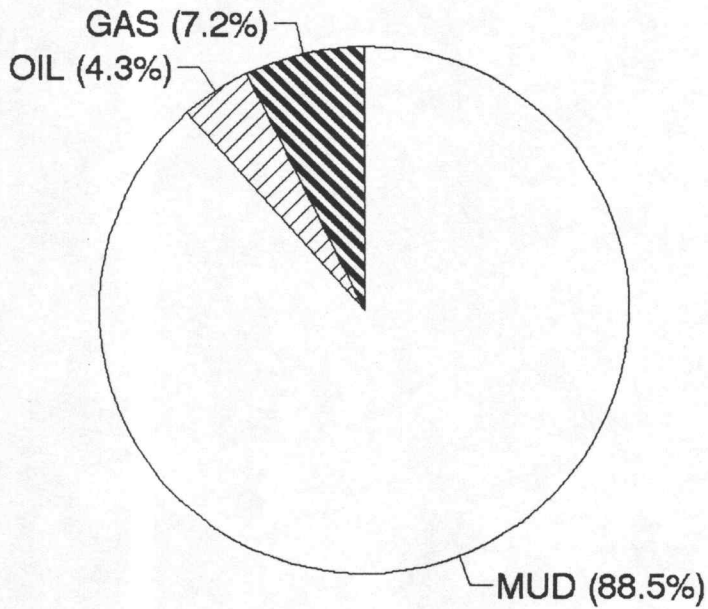


POINT This is an actual photograph of recorder chart PRESSURE

POINT	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2342	2337.4
(B) FIRST INITIAL FLOW PRESSURE	121	142.7
(C) FIRST FINAL FLOW PRESSURE	157	154.7
(D) INITIAL CLOSED-IN PRESSURE	157	159.1
(E) SECOND INITIAL FLOW PRESSURE	157	159.1
(F) SECOND FINAL FLOW PRESSURE	157	176.2
(G) FINAL CLOSED-IN PRESSURE	157	169
(H) FINAL HYDROSTATIC MUD	2297	2289.9

DST #		CALCULATED RECOVERY ANALYSIS					DRILL COLLARS			
1		TICKET # 4313								
SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD		
		%	FEET	%	FEET	%	FEET	%	FEET	
1	60	2	1.2	1	0.6	0	0	97	58.2	
2	93	5	4.65	5	4.65	0	0	90	83.7	
3	186	10	18.6	5	9.3	0	0	85	158.1	
4			0		0		0		0	
5			0		0		0		0	
TOTAL	339	7.21	24.45	4.29204	14.55	0	0	88.4956	300	

HRS OPEN BBL/DAY
 BBL OIL= 0.071149 * 0.92 1.85607
 BBL WATER 0 * 0
 BBL MUD= 1.467
 0.119561



WELL NAME Modie DST # 1 RECORDER # 13308
 INIT. HYD. MUD. 1976 23374 FINAL HYD. MUD 1936 2289.9

INITIAL FLOW MINUTES	INITIAL SHUTIN MINUTES	INITIAL FLOW MINUTES	INITIAL SHUTIN MINUTES	FINAL FLOW MINUTES	FINAL SHUTIN MINUTES
<u>15</u>	<u>30</u>	<u>40</u>	<u>3</u>	<u>3</u>	<u>3</u>
<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>
<u>118</u>	<u>142.7</u>	<u>128</u>	<u>154.7</u>	<u>1</u>	<u>132</u> <u>159.1</u> <u>146</u> <u>176.2</u>
<u>120</u>	<u>145.1</u>	<u>130</u>	<u>157.1</u>	<u>2</u>	<u>132</u> <u>159.1</u> <u>144</u> <u>173.8</u>
<u>124</u>	<u>149.9</u>	<u>130</u>	<u>157.1</u>	<u>3</u>	<u>132</u> <u>159.1</u> <u>144</u> <u>173.8</u>
<u>126</u>	<u>152.3</u>	<u>130</u>	<u>157.5</u>	<u>4</u>	<u>132</u> <u>159.1</u> <u>144</u> <u>173.8</u>
<u>128</u>	<u>154.7</u>	<u>130</u>	<u>157.5</u>	<u>5</u>	<u>595</u> <u>649.6</u> <u>142</u> <u>171.9</u>
		<u>130</u>	<u>157.5</u>	<u>6</u>	<u>206</u> <u>247.9</u> <u>142</u> <u>171.9</u>
		<u>130</u>	<u>157.5</u>	<u>7</u>	<u>154</u> <u>183.8</u> <u>140</u> <u>169.0</u>
		<u>130</u>	<u>157.5</u>	<u>8</u>	<u>146</u> <u>176.2</u> <u>140</u> <u>169.0</u>
		<u>132</u>	<u>159.1</u>	<u>9</u>	<u>146</u> <u>176.2</u> <u>140</u>
		<u>132</u>	<u>159.1</u>	<u>10</u>	<u>146</u>
				<u>11</u>	<u>146</u>
				<u>12</u>	<u>146</u>
				<u>13</u>	<u>146</u>
				<u>14</u>	<u>140</u>
				<u>15</u>	<u>140</u>
				<u>16</u>	<u>140</u>
				<u>17</u>	<u>140</u>
				<u>18</u>	<u>140</u>
				<u>19</u>	<u>140</u>
				<u>20</u>	<u>140</u>
				<u>21</u>	<u>140</u>
				<u>22</u>	<u>140</u>
				<u>23</u>	<u>140</u>
				<u>24</u>	<u>140</u> <u>169.0</u> <u>140</u>
				<u>25</u>	<u>140</u>
				<u>26</u>	<u>140</u>
				<u>27</u>	<u>140</u>

Flush Tool ←

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No. 4313

Well Name & No. <u>MODIE 5-31</u>	Test No. <u>1</u>	Date <u>1-18-92</u>
Company <u>BEREXCO INC</u>	Zone Tested <u>MORROW</u>	
Address <u>970 FINANCIAL CENTER WIGHTS</u>	Elevation <u>3318</u>	
Co. Rep./Geo. <u>Ed</u>	cont. <u>BEREXCO</u>	Est. Ft. of Pay <u>12</u>
Location: Sec. <u>31</u>	Twp. <u>22</u>	Rge. <u>31</u> Co. <u>KEARNEY</u> State <u>KS</u>
No. of Copies _____	Distribution Sheet <input checked="" type="checkbox"/> Yes _____	No Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>4700-4730</u>	Drill Pipe Size <u>4 1/2 X H</u>
Anchor Length <u>30</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>4695</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>4700</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>4730</u>	Drill Collar — 2.25 Ft. Run <u>631</u>
Mud Wt. <u>8.9 LCM 1</u> lb/gal.	Viscosity <u>51</u> Filtrate <u>8.8</u>
Tool Open @ <u>10:08 AM</u>	Initial Blow <u>BLOW OFF BOTTOM IN 45 SEC</u>

Final Blow WEAK BLOW DIES OFF FLUCH TOOL WEAK BLOW TO 2" IN 30 MIN

Recovery — Total Feet <u>339</u>	Feet of Gas in Pipe <u>1133</u>	Flush Tool? <u>11:03</u>
Rec. <u>60</u> Feet Of <u>GAS OIL C MUD</u>	<u>2% gas 1/2% oil</u>	% water <u>97 1/2</u> mud
Rec. <u>93</u> Feet Of <u>GAS OIL C MUD</u>	<u>5% gas 5% oil</u>	% water <u>90</u> mud
Rec. <u>186</u> Feet Of <u>GAS OIL C MUD</u>	<u>10% gas 5% oil</u>	% water <u>85</u> mud
Rec. _____ Feet Of _____	% gas _____ % oil _____	% water _____ % mud _____
Rec. _____ Feet Of _____	% gas _____ % oil _____	% water _____ % mud _____

BHT <u>120</u> °F	Gravity _____	°API @ _____	°F Corrected Gravity _____	°API _____
RW _____ @ _____ °F	Chlorides _____	ppm Recovery _____	Chlorides <u>1900</u>	ppm System _____
(A) Initial Hydrostatic Mud <u>2342</u>	PSI	Ak1 Recorder No. <u>13308</u>	Range <u>4700</u>	
(B) First Initial Flow Pressure <u>121</u>	PSI	@ (depth) <u>4702</u>	w/Clock No. <u>27567</u>	
(C) First Final Flow Pressure <u>157</u>	PSI	Ak1 Recorder No. <u>10248</u>	Range <u>4400</u>	
(D) Initial Shut-In Pressure <u>157</u>	PSI	@ (depth) <u>4731</u>	w/Clock No. <u>14358</u>	
(E) Second Initial Flow Pressure <u>157</u>	PSI	Ak1 Recorder No. _____	Range _____	
(F) Second Final Flow Pressure <u>157</u>	PSI	@ (depth) _____	w/Clock No. _____	
(G) Final Shut-In Pressure <u>157</u>	PSI	Initial Opening <u>15</u>	Test <input checked="" type="checkbox"/>	
(H) Final Hydrostatic Mud <u>2297</u>	PSI	Initial Shut-In <u>30</u>	Jars <input checked="" type="checkbox"/>	

TRILOBIITE TESTING COMPANY SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUBSTAINED, 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.	Final Flow <u>40</u>	Safety Joint <input checked="" type="checkbox"/>
	Final Shut-In <u>93</u>	Straddle _____
	<u>WORK ON DBA WORKS FOR 33 MIN</u>	Circ. Sub <input checked="" type="checkbox"/> <u>NC</u>
		Sampler _____

Approved By _____	Extra Packer _____
Our Representative <u>Mark Hershey</u>	Other _____
Printcraft Printers - Hays, KS	TOTAL PRICE \$ _____

TRILOBITE TESTING COMPANY, L.L.C.
P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name MODIE #5-31 Test No. 2 Date 1/19/92
Company BEREXCO INC Zone Tested MORROW
Address 970 FINANCIAL CENTER WICHITA KANSAS Elevation 3318
Co. Rep./Geo. ED GRIEVES Cont. BEREDCO RIG #2 Est. Ft. of Pay 6
Location: Sec. 31 Twp. 22S Rge. 31W Co. KEARNY State KS

Interval Tested 4738-4750 Drill Pipe Size 4.5 XH
Anchor Length 12 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4733 Drill Collar — 2.25 Ft. Run 631
Bottom Packer Depth 4738
Total Depth 4750

Mud Wt. 8.9 lb / gal. Viscosity 48 Filtrate 6

Tool Open @ 4:49 AM Initial Blow OFF BOTTOM IN 4 MINUTES 30 SECONDS

Final Blow GOOD BLOW OFF BOTTOM IN 4 MINUTES
BLOW ON SECOND SHUT IN

Recovery — Total Feet 40 Flush Tool? NO

Rec. 3000 Feet of GAS IN PIPE

Rec. 10 Feet of GSY MUD CUT OIL-1%GAS/75%OIL/24%MUD

Rec. 30 Feet of GASSY CLEAN OIL-1%GAS/99%OIL

Rec. _____ Feet of _____

Rec. _____ Feet of _____
BHT 120 °F Gravity 33 °API @ 70 °F Corrected Gravity 32 °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1500 ppm System

(A) Initial Hydrostatic Mud 2337.4 PSI AK1 Recorder No. 13308 Range 4700

(B) First Initial Flow Pressure 53.6 PSI @ (depth) 4740 w/Clock No. 27567

(C) First Final Flow Pressure 36.7 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 85 PSI @ (depth) 4745 w/Clock No. 14389

(E) Second Initial Flow Pressure 56 PSI AK1 Recorder No. _____ Range _____

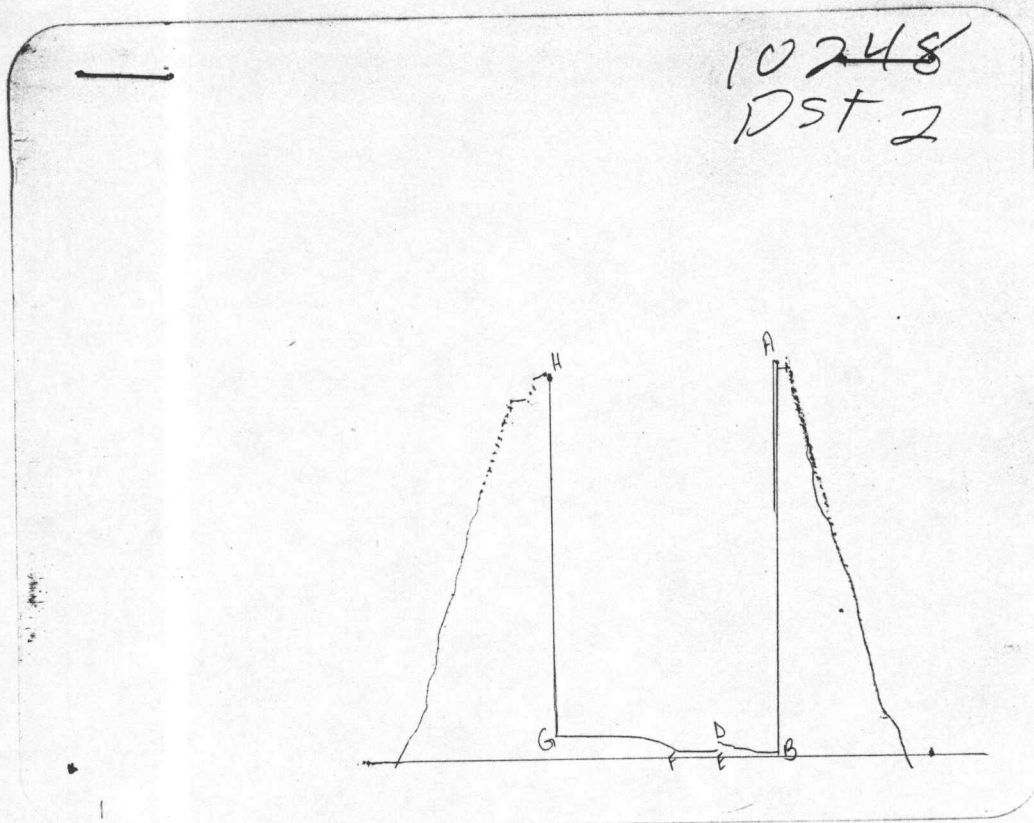
(F) Second Final Flow Pressure 51.2 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 152.3 PSI Initial Opening 15 Final Flow 30

(H) Final Hydrostatic Mud 2289.9 PSI Initial Shut-in 30 Final Shut-in 90

Our Representative MARK HERSKOWITZ

TOTAL PRICE \$ 800



POINT This is an actual photograph of recorder chart PRESSURE

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2330	2337.4
(B) FIRST INITIAL FLOW PRESSURE	48	53.6
(C) FIRST FINAL FLOW PRESSURE	36	36.7
(D) INITIAL CLOSED-IN PRESSURE	97	85
(E) SECOND INITIAL FLOW PRESSURE	48	56
(F) SECOND FINAL FLOW PRESSURE	48	51.2
(G) FINAL CLOSED-IN PRESSURE	145	152.3
(H) FINAL HYDROSTATIC MUD	2282	2289.9

WELL NAME Mod. E 5-31 DST # 2 RECORDER # 13308

INIT. HYD. MUD. 1974 2337.4 FINAL HYD. MUD 1934 2289.9

INITIAL FLOW MINUTES	INITIAL SHUTIN MINUTES	INITIAL FLOW INTERVAL	INITIAL SHUTIN INTERVAL		FINAL FLOW MINUTES	FINAL SHUTIN MINUTES	FINAL FLOW INTERVAL	FINAL SHUTIN INTERVAL
44	53.6	30	36.7	1	46	56.0	42	51.2
34	41.5	36	43.9	2	42	51.2	48	58.4
30	36.7	40	48.8	3	42	51.2	58	70.5
30	36.7	44	53.6	4	42	51.2	68	82.6
30	36.7	48	58.4	5	42	51.2	78	94.6
		52	63.3	6	42	51.2	88	106.6
		56	68.1	7	42	51.2	96	116.3
		60	72.9	8	42	51.2	100	121.1
		64	77.7	9	42	51.2	104	125.9
		70	85.0	10	42	51.2	108	130.7
				11			112	135.5
				12			116	140.3
				13			118	142.7
				14			119	143.8
				15			120	145.1
				16			120	145.1
				17			120	145.1
				18			122	147.5
				19			122	147.5
				20			122	147.5
				21			122	147.5
				22			122	147.5
				23			124	149.9
				24			124	149.9
				25	126	152.3	124	149.9
				26	126	152.3	124	149.9
				27	126	152.3	124	149.9

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No. 4314

Well Name & No. Modie 5-31 Test No. 2 Date 1-19-92
 Company BEREXCO INC Zone Tested MORROW
 Address 970 FINANCIAL CENTER WICHITA Elevation 3318
 Co. Rep./Geo. Ed Cont. BEREXCO INC Est. Ft. of Pay 6
 Location: Sec. 31 Twp. 22 Rge. 31 Co. KEARNY State Ks
 No. of Copies _____ Distribution Sheet Yes _____ No Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4738 to 4750 Drill Pipe Size 4 1/2 X H
 Anchor Length 12 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 4733 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 4738 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 4750 Drill Collar — 2.25 Ft. Run 631
 Mud Wt. 8.9 LCM 2# lb/gal. Viscosity 48 Filtrate 6.0
 Tool Open @ 4:49 AM Initial Blow OFF BOTTOM IN 4 MIN 30 SEC

Final Blow Good Blow OFF BOTTOM IN 4 MIN
Blow on sec shut-in

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>40</u>	<u>3000</u>	<u>—</u>
Rec. <u>10</u> Feet Of <u>GMC Oil</u>	<u>1</u> % gas <u>75</u> % oil	<u>24</u> % water % mud
Rec. <u>30</u> Feet Of <u>GC Oil</u>	<u>1</u> % gas <u>99</u> % oil	% water % mud
Rec. _____ Feet Of _____	% gas % oil	% water % mud
Rec. _____ Feet Of _____	% gas % oil	% water % mud
Rec. _____ Feet Of _____	% gas % oil	% water % mud

BHT 120 °F Gravity 33 °API @ 70 °F Corrected Gravity 32 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1500 ppm System

- (A) Initial Hydrostatic Mud 2330 PSI Ak1 Recorder No. 13308 Range 4700
- (B) First Initial Flow Pressure 48 PSI @ (depth) 4740 w/Clock No. 27567
- (C) First Final Flow Pressure 36 PSI AK1 Recorder No. 10248 Range 4000
- (D) Initial Shut-In Pressure 47 PSI @ (depth) 4745 w/Clock No. 14389
- (E) Second Initial Flow Pressure 48 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 48 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 145 PSI Initial Opening 15 Test
- (H) Final Hydrostatic Mud 2282 PSI Initial Shut-In 30 Jars

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Final Flow 30 Safety Joint
 Final Shut-In 90 Straddle _____
Tool Washer Call Circ. Sub NC
ON Bottom 30 MIN Sampler _____

Approved By [Signature]
 Our Representative [Signature]

Extra Packer _____
 Other _____
 TOTAL PRICE \$ _____