

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

ORIGINAL

API NO. 15- 175-21342-0000

County SEWARD

E/2    NW    SW    Sec. 5 Twp. 33S Rge. 31  E

1980 Feet from S (circle one) Line of Section

990 Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)

Lease Name MASSONI Well # 3-5

Field Name MASSONI

Producing Formation ADMIRE

Elevation: Ground 2766' KB   

Total Depth 6100' PBDT   

Amount of Surface Pipe Set and Cemented at 1512 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 3458' Feet

If Alternate II completion, cement circulated from   

feet depth to    w/    sx cmt.

Drilling Fluid Management Plan CP 5-27-94  
(Data must be collected from the Reserve Pit)

Chloride content 4000 ppm Fluid volume 10000 bbls

Dewatering method used Evaporation/Dewater/Dry Out/Back Fill

Location of fluid disposal if hauled offsite:   

Operator Name   

Lease Name RELEASED License No.   

Quarter S 4 1995 Twp.    S Rng.    E/W

County    Docket No.   

FROM CONFIDENTIAL

Operator: License # 6120

Name: CABOT OIL & GAS CORPORATION

Address 9400 N. Broadway, Suite 608

City/State/Zip Oklahoma City, OK 73114

Purchaser: Cabot Oil & Gas Marketing Corporation

Operator Contact Person: Jim R. Pendergrass

Phone ( 405 ) 478-6514

Contractor: Name: H-40 Drilling, Inc.

License: 30629

Wellsite Geologist: CONFIDENTIAL

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows: STATE COMMISSION

Operator:   

Well Name:   

Comp. Date    Old Total Depth   

Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBDT  
 Commingled  Docket No.     
 Dual Completion  Docket No.     
 Other (SWD or Inj?)  Docket No.   

9/30/93 10/11/93 12/15/93

Spud Date    Date Reached TD    Completion Date   

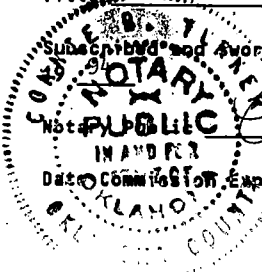
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature John P. Suter JOHN P. SUTER

Title ENGINEER Date 1/25/94

Subscribed and sworn to before me this 25th day of JANUARY



Colleen B. Turner

Date Commission Expires SEPTEMBER 2, 1996

K.C.C. OFFICE USE ONLY  
F Letter of Confidentiality Attached  
C  Wireline Log Received  
C Geologist Report Received  
Distribution  
KCC SWD/Rep NGPA  
KGS Plug Other (Specify)

Operator Name Cabot Oil & Gas Corporation Lease Name Massoni Well # 3-5  
 Sec. 5 Twp. 33S Rge. 31  East  West  
 County Seward

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets.)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy.)  
 List All E.Logs Run:  
 DILL/Spectral Density/Microlog/GR/CBL/CLL

Log Formation (Top), Depth and Datum		Sample
Name	Top	Datum
Herrington	2605'	
Krider	2633'	
Winfield	2681'	
Ft. Riley	2812'	
Council Grove	2919'	
Waubensee	3387'	
Base Heebner	4245'	
Toronto	4253'	
Lansing	4387'	
Checkerboard	4741'	
Marmaton	5015'	
Cherokee	5180'	
Morrow	5517'	
Chester Lime	5607'	
St. Genevieve	5763'	
St. Louis	5937'	

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
SURFACE	12-1/4"	8-5/8"	24#/Ft.	1512'	Prem. Lite Class H	575 150	2% cc 2% cc
PRODUCTION		5-1/2"	15.5#/Ft.	6100'	50/50 poz	130	10% Salt
					50/50 poz	140	
					50/50 poz	130	

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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth	
	2	5962'-5980'	St. Louis	Acidize St. Louis w/1500 gals 15% NE-FE HCl
4	5939'-5947'	Upper St. Louis	Acidize Upper St. Louis w/1000 gals 15% NE-FE HCl	5939'-5947'
	CIBP @ 5925' & 5955'		Acid Frac Upper St. Louis w/10000 gals NE-FE HCl	5939'-5947'
	(SEE ATTACHMENT)			

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		2-3/8"	3290.60'				
Date of First, Resumed Production, SWD or Inj.			Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
FIRST PRODUCTION 1/17/94							
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio Gravity
				500			

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval ADMIRE 3312'-3316'

API #15-175-21342-0000

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	5562'-5570' MORROW	Acidize Morrow w/1500 gals 7-1/2% NE-FE HCl	5562'-5570'
		Frac Morrow w/24319 gals Boragel 30 + 110000# 16/30 Ottawa Sand	5562'-5570'
2	3312'-3316' ADMIRE	Acidize Admire w/1500 gals 15% NE-FE HCl	3312'-3316'
	ARROW TS RBP @ 4590'		
		ORIGINAL	

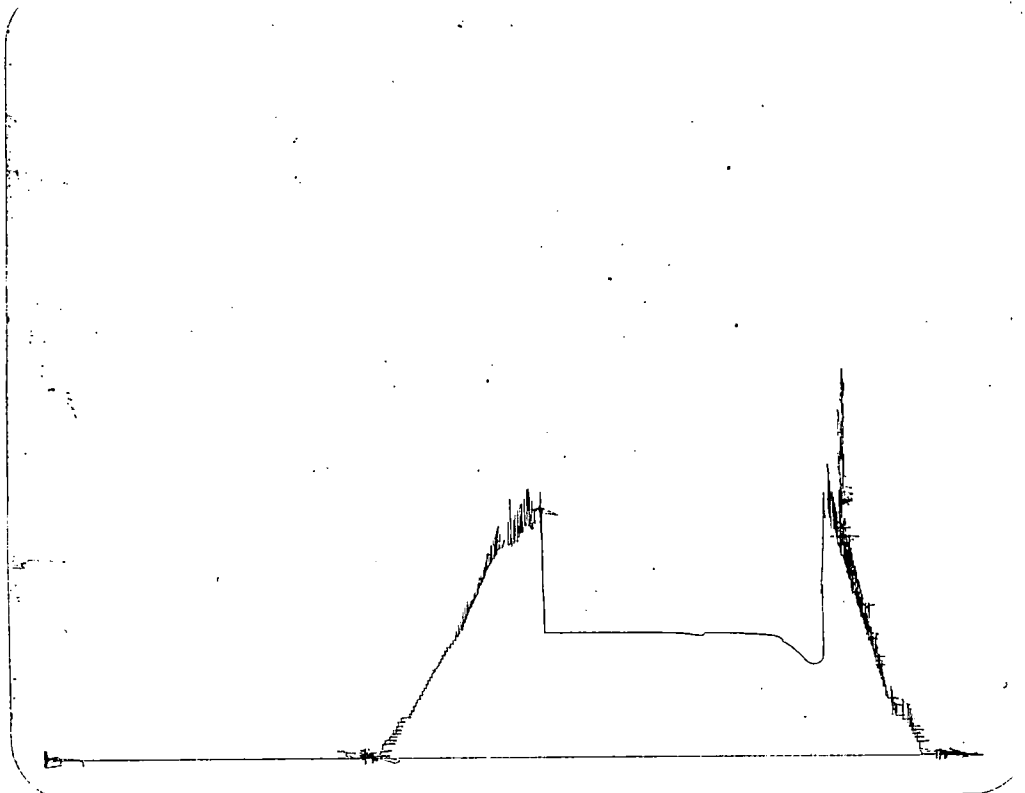
RELEASED  
MAY 24 1995  
FROM CONFIDENTIAL

KCC  
FEB 1  
CONFIDENTIAL

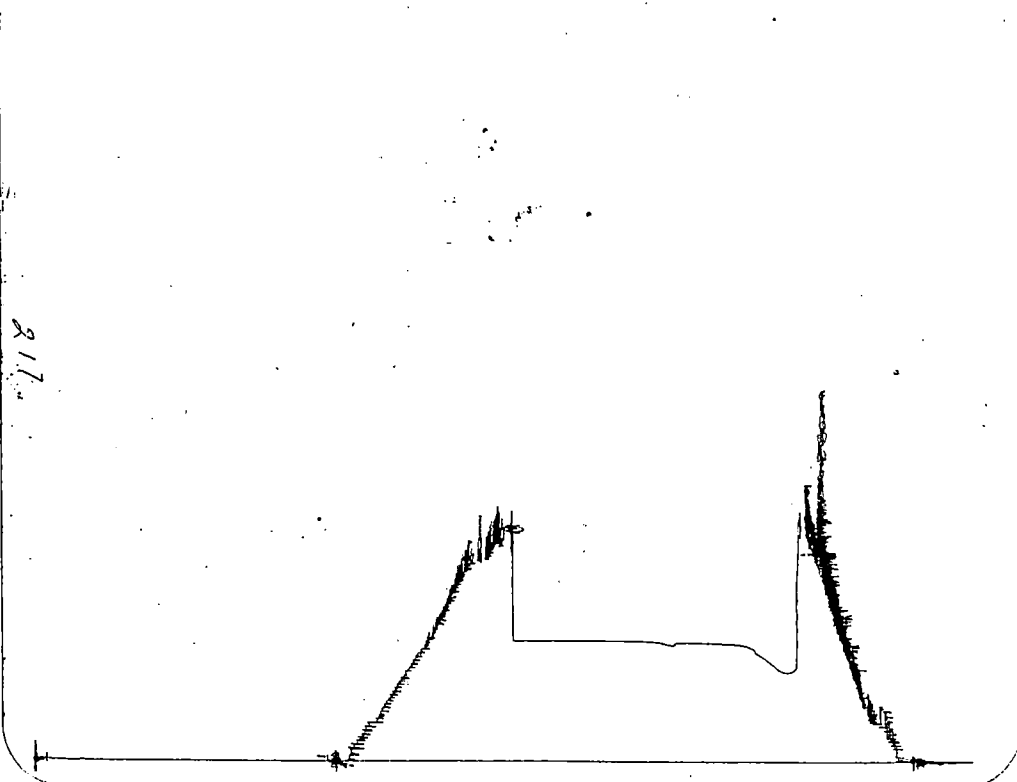
RECORDED  
STATE ARCHIVES (KANSAS)

FEB - 5 1994

CONSERVATION DIVISION  
Wichita, Kansas



Initial Hydrostatic \_\_\_\_\_ 2022 \_\_\_\_\_ psi  
 IFP \_\_\_\_\_ 745 \_\_\_\_\_ psi to \_\_\_\_\_ 922 \_\_\_\_\_ psi  
 ISIP \_\_\_\_\_ 1003 \_\_\_\_\_ psi  
 FFP \_\_\_\_\_ 980 \_\_\_\_\_ psi to \_\_\_\_\_ 1008 \_\_\_\_\_ psi  
 FSIP \_\_\_\_\_ 1008 \_\_\_\_\_ psi  
 Final Hydrostatic \_\_\_\_\_ 2016 \_\_\_\_\_ psi



### Pressure Break Down

Test ticket no. 3569 Recorder no. 10269 Capacity 6500 Rec. Depth. 4289'

	Time	Given 30	Computed 30
Initial Flow pressure <u>745</u> to <u>922</u>			
Initial Closed in pressure <u>1003</u>		<u>60</u>	<u>60</u>
Final Flow pressure <u>980</u> to <u>1008</u>		<u>60</u>	<u>60</u>
Final Closed-in pressure <u>1008</u>		<u>60</u>	<u>60</u>

Initial Hydrostatic pressure 2022 Final Hydrostatic press. 2016 Temp 109°F.

Initial Flow Press.		Initial Closed in Press.		Final Flow Press		Final Closed in Press.	
Minutes	Press	Minutes	Press	Minutes	Press	Minutes	Press
0	--	0	922	0	980	0	1008
5	745	3		5		3	
10	748	6	974	10	990	6	1008
15	777	9		15		9	
20	835	12	983	20	996	12	1008
25	880	15		25		15	
30	922	18	990	30	1003	18	1008
35		21		35		21	
40		24	993	40	1008	24	1008
45		27		45		27	
50		30	996	50	1008	30	1008
55		33		55		33	
60		36	1000	60	1008	36	1008
65		39		65		39	
70		42	1003	70		42	1008
75		45		75		45	
80		48	1003	80		48	1008
85		51		85		51	
90		54	1003	90		54	1008
95		57		95		57	
100		60	1003	100		60	1008
105		63		105		63	
110		66		110		66	
115		69		115		69	
120		72		120		72	
		75		125		75	
		78		130		78	
		81		135		81	
		84		140		84	
		87		145		87	
		90		150		90	
		93		155		93	
		96		160		96	
		99		165		99	
		102		170		102	
		105		175		105	
		108		180		108	
		111				111	
		114				114	
		117				117	
		120				120	

Location Toronto Type Test Conventional Date October 5, 1993  
 Anchor Length and Size 24' X 4 1/2" OD-Perf. Total Depth 4296'  
 Casing Depths 4267' & 4272' Below Straddle \_\_\_\_\_ Choke Size Bottom 5/8" Surface 1"  
 Equipment Run 2 Packers, Jars, Sample Chamber, Safety joint, Circ. sub.

ORIGINAL

Lengths: Tool 57' D.P. 3594' ID 3.8" Wt. P. \_\_\_\_\_ ID \_\_\_\_\_ D.C. 655' ID 2.25"  
 Fluid Type Chemical vis. 44 Wt. 9.0 Wtr. Loss 6.8 Cl. 3200 ppm

Recorders:  
 Depth 4289' Make Kuster Cap. 6500 Ser. No. 10269 Inside  
 Depth 4294' Make Kuster Cap. 6800 Ser. No. 10217 Outside  
 Depth \_\_\_\_\_ Make \_\_\_\_\_ Cap. \_\_\_\_\_ Ser. No. \_\_\_\_\_ Below Straddle

Pressures:  
 Tool on Bottom @ 7:45 A.M. Initial Hydrostatic 2022 psi  
 Initial Flow 30 Min. IFP 745 psi to 922 psi  
 Initial Shut-In 60 Min. ISIP 1003 psi  
 Final Flow 60 Min. FFP 980 psi to 1008 psi  
 Final Shut-In 60 Min. FSIP 1008 psi  
 Tool off Bottom @ 11:15 A.M. Final Hydrostatic 2016 psi Temp. 109°F.

FEB 1 CONFIDENTIAL

Flow: Strong. Gas to surface in 2 min. RELEASED

Recovery: 2000' Total Fluid.  
60' Gas Cut Muddy Water.  
1940' Gas Cut Salt Water.  
 MAY 2 4 1995  
 FROM CONFIDENTIAL

Gas Flow:  
 Initial Flow:  
 10 min.- 47.7 MCF/D  
 20 min.- 33.9 MCF/D  
 30 min.- 11.02 MCF/D  
 Final Flow:  
 10 min.- 4.76 MCF/D  
 20 min.- Too small to measure.  
 Remainder- Too small to measure.

Sampler Data:  
 Pressure 945 PSI  
 Gas 0.02 cu. ft.  
 Total Fluid 2000 cc  
 Oil \_\_\_\_\_ cc  
 Water 2000 cc  
 Mud \_\_\_\_\_ cc  
 Oil Gravity \_\_\_\_\_ @ \_\_\_\_\_ °F.  
 Gas/Oil Ratio \_\_\_\_\_

Remarks:  
 Fluid Analysis:  

	PPM Cl.	S.G.	Ph	Rw.
Pit:	3200	1.005	9	.90 @ 85°F.
Top:	72,000	1.080	7	.06 @ 85°F.
Middle:	121,000	1.130	7	.04 @ 85°F.
Bottom:	121,000	1.130	7	.04 @ 85°F.
Sampler:	121,000	1.130	7	.04 @ 85°F.

Tester Butch Young Witnessed by: Jeff

REC. 5  
 TWP. 33S  
 RGE. 31W  
 COUNTY Seward  
 STATE Kansas  
 TICKET NO. 3569

Cabot Oil & Gas Corporation  
 OPERATOR  
 Massoni #3-5  
 WELL NAME & NO.  
 TEST # 1  
 TEST INTERVAL  
 4272'-4296'

**DEAN'S TESTERS  
NATURAL GAS ANALYSIS REPORT**

Sampled by:  
Dean's Testers  
P. O. Box 1182  
Liberal, Kansas 67905-0252  
Phone: 316-624-7340  
Ans. Ser.: 316-624-6247

Analyzed by:  
Caraway Analytical  
728 North Roosevelt  
Liberal, Kansas 67901  
Phone: 316-324-5389  
Fax: 316-626-7108

Lab Number: 93189  
Sample From: Masonni #3-5  
Producer: Cabot Oil & Gas Co.  
Date: 10/05/93  
Time:  
Sampler: Butch Young  
Source:

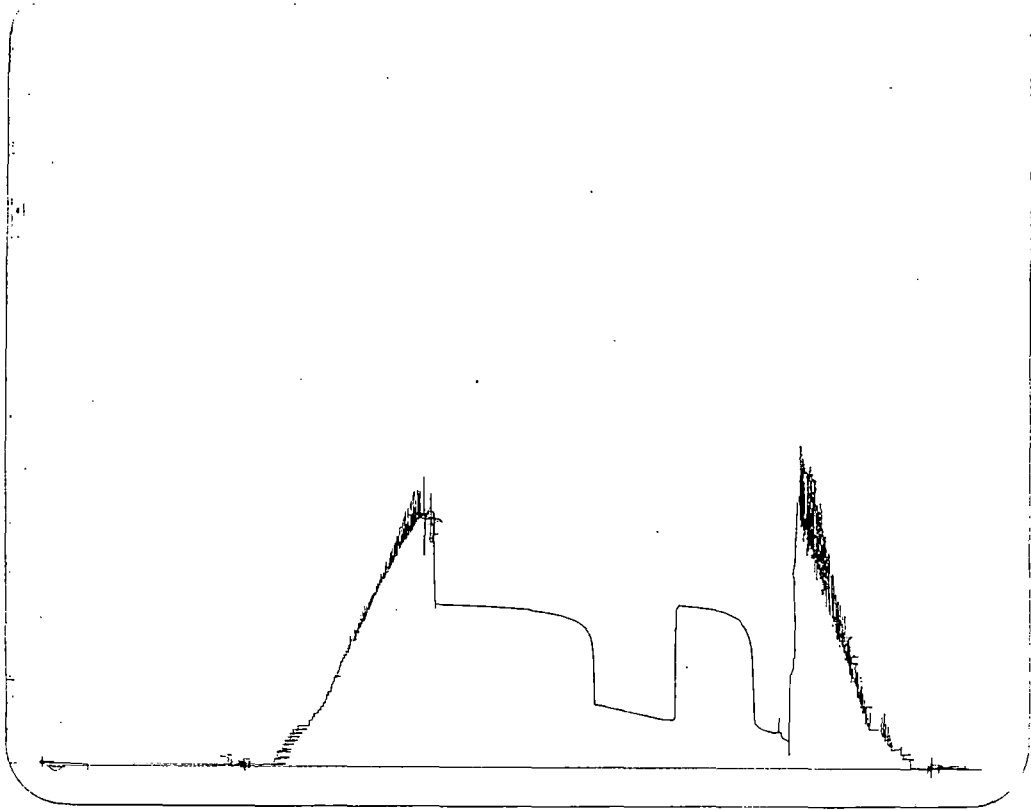
Analyzed: 10/05/93  
Pressure:  
Temperature:  
Location: 5-33S-31W  
County: Seward  
State: Kansas  
Formation: Toronto

	Mole %	GPM
Helium	He: 0.077	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 13.498	0.000
Carbon Dioxide	CO2: 0.296	0.000
Methane	C1: 72.513	0.000
Ethane	C2: 5.880	1.573
Propane	C3: 4.476	1.233
Iso Butane	iC4: 0.566	0.185
Normal Butane	nC4: 1.298	0.409
Iso Pentane	iC5: 0.257	0.094
Normal Pentane	nC5: 0.331	0.120
Hexanes Plus	C6+: 0.808	0.353

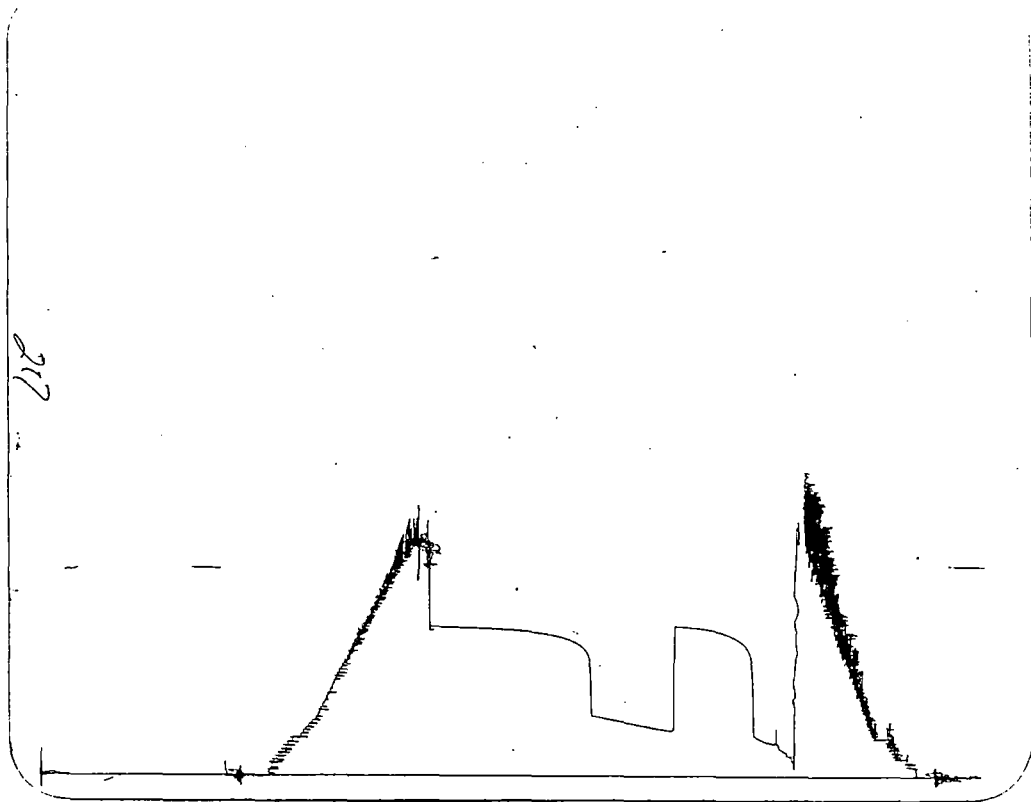
TOTAL: 100.000 3.967  
Z Fact: 0.9973  
SP.GR.: 0.7443  
BTU (SAT): 1061.4 @ 14.73 psia  
BTU (DRY): 1080.2 @ 14.73 psia

**COMMENTS:**

4272'-4296'



Initial Hydrostatic \_\_\_\_\_ 2102 \_\_\_\_\_ psi  
 IFP \_\_\_\_\_ 103 \_\_\_\_\_ psi to \_\_\_\_\_ 348 \_\_\_\_\_ psi  
 ISIP \_\_\_\_\_ 1302 \_\_\_\_\_ psi  
 FFP \_\_\_\_\_ 374 \_\_\_\_\_ psi to \_\_\_\_\_ 503 \_\_\_\_\_ psi  
 FSIP \_\_\_\_\_ 1302 \_\_\_\_\_ psi  
 Final Hydrostatic \_\_\_\_\_ 2086 \_\_\_\_\_ psi





# DEAN'S TESTERS INC. ORIGINAL

P. O. BOX 1182  
LIBERAL, Ks. 67801

Cabot Oil & Gas Corporation  
OPERATOR

Massoni #3-5  
WELL NAME & NO.

TEST # 2  
4512' - 4546'  
TEST INTERVAL

SEC. 5  
TWP. 33S  
RGE. 31W  
COUNTY Seward  
STATE KANSAS  
TICKET NO. 3571

PHONE  
818 / 824-7340.

Information Kansas City Type Test Conventional Date October 6, 1993  
 Anchor Length and Size 34' X 4 1/2" OD-Perf. Total Depth 4546'  
 Cacker Depths 4507' & 4512' Below Straddle Choke Size Bottom 5/8" Surface 1/4"  
 Equipment Run 2 Packers, Jars, Sample Chamber, Safty joint, Circ. sub.

Lengths: Tool 67' D.P. 3844' ID. 3.8" Wt. P. \_\_\_\_\_ ID \_\_\_\_\_ D.C. 655' ID. 2.25"  
 Mud Type Chemical Vls. 47 Wt. 9.0 Wtr. Loss 8.8 Cl. 2100 ppm

Recorders:  
 Depth 4539' Make Kuster Cap. 6500 Ser. No. 10269 Inside  
 Depth 4544' Make Kuster Cap. 6800 Ser. No. 10217 Outside  
 Depth \_\_\_\_\_ Make \_\_\_\_\_ Cap. \_\_\_\_\_ Ser. No. \_\_\_\_\_ Below Straddle

Pressures:  
 Tool on Bottom @ 8:30 A.M. Initial Hydrostatic 2102 psi  
 Initial Flow 25 Min. IFF 103 psi to 348 psi  
 Initial Shut-In 60 Min. ISIP 1302 psi  
 Final Flow 60 Min. FFP 374 psi to 503 psi  
 Final Shut-In 120 Min. FSIP 1302 psi  
 Tool off Bottom @ 1:00 P.M. Final Hydrostatic 2086 psi Temp. 111°F.

KCO  
FEB 1  
**CONFIDENTIAL**

Blow: Weak increasing to strong on I.F.P. Weak increasing to good on F.F.P.

Recovery: 950' Total Fluid.  
60' Muddy Water w/trace of oil.  
890' Salt Water.

**RELEASED**  
MAY 24 1995  
FROM CONFIDENTIAL

Gas Flow:

**Sampler Data:**  
 Pressure 480 PSI  
 Gas none cu. ft.  
 Total Fluid 2000 cc  
 Oil --- cc  
 Water 2000 cc  
 Mud --- cc  
 Oil Gravity \_\_\_\_\_ @ \_\_\_\_\_ °F.  
 Gas/Oil Ratio \_\_\_\_\_

**Remarks:**  
**Fluid Analysis:**

	PPM Cl.	S.G.	Ph.	Rw.
Pit:	2100	1.000	9	1.4 @ 85°F.
Top:	60,000	1.065	7	.07 @ 85°F.
Middle:	111,000	1.120	7	.04 @ 85°F.
Bottom:	111,000	1.120	7	.04 @ 85°F.
Sampler:	111,000	1.120	7	.04 @ 85°F.

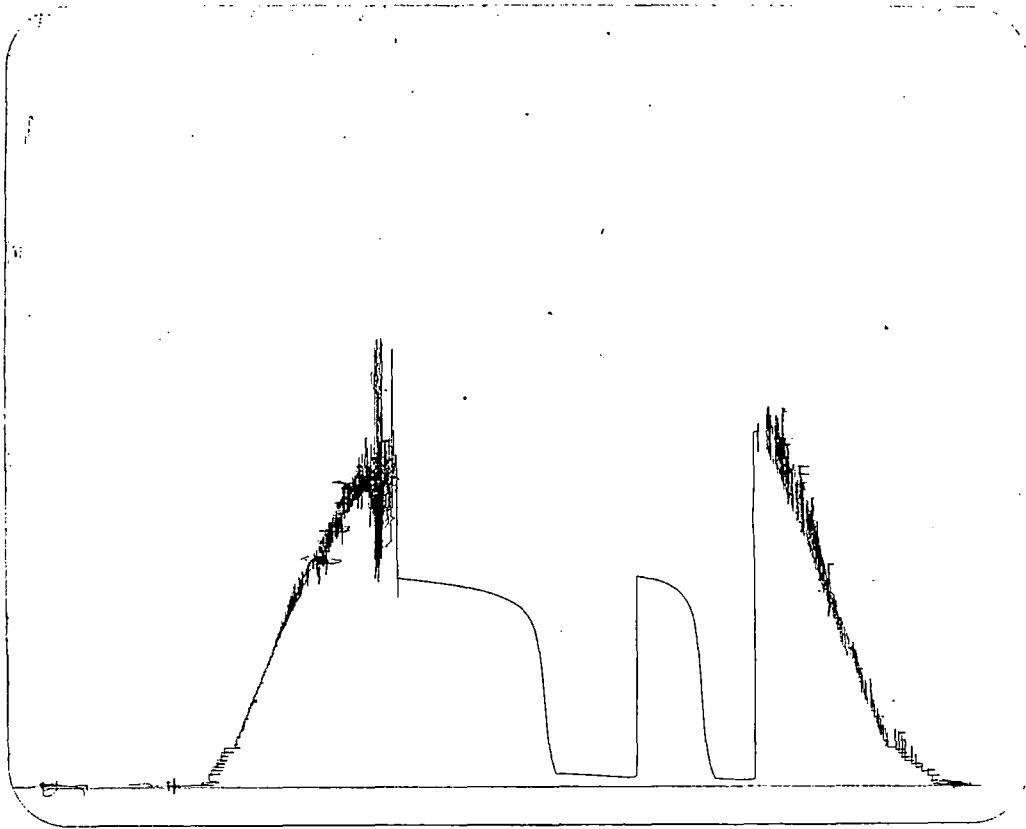
Tester Butch Young Witnessed by: Jeff

**Pressure Break Down**

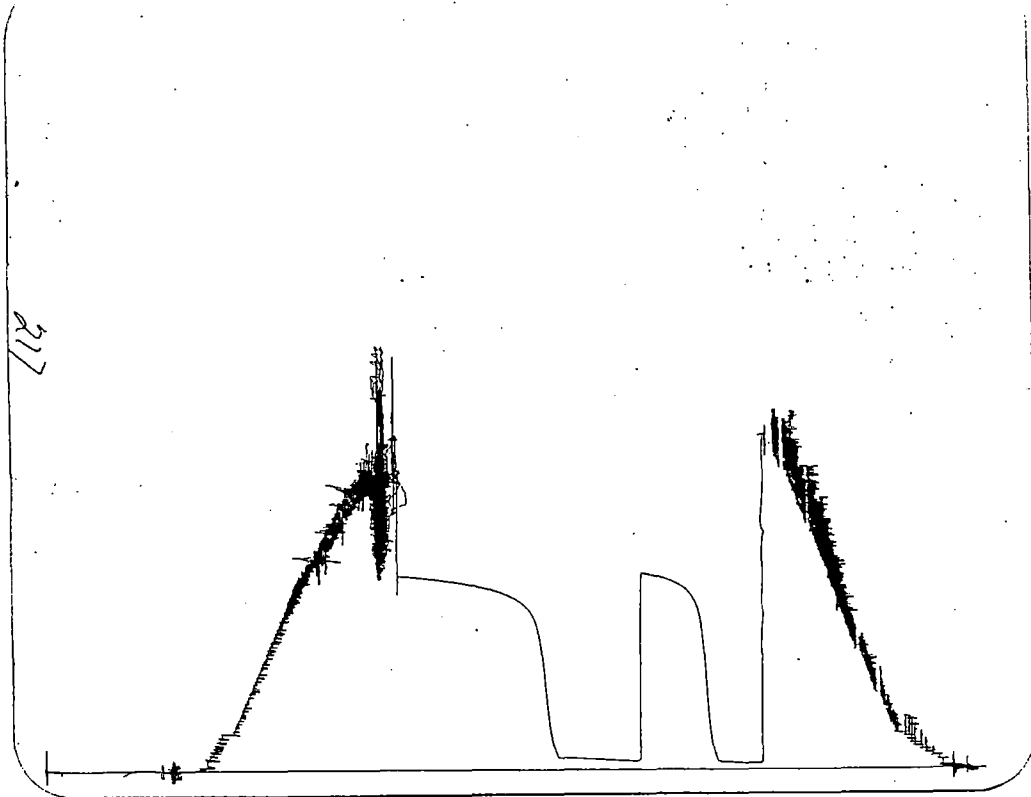
Test ticket no. 3571 Recorder no. 10269 Capacity 6500 Rec. Depth. 4539'

Initial Flow pressure <u>103</u> to <u>348</u>	Time	Given <u>30</u>	Computed <u>25</u>
Initial Closed in pressure <u>1302</u>		<u>60</u>	<u>60</u>
Final Flow pressure <u>374</u> to <u>503</u>		<u>60</u>	<u>60</u>
Final Closed-in pressure <u>1302</u>		<u>120</u>	<u>120</u>
Initial Hydrostatic pressure <u>2102</u>	Final Hydrostatic press. <u>2086</u>	Temp <u>111°F.</u>	

Initial Flow Press.		Initial Closed in Press.		Final Flow Press		Final Closed in Press.	
Minutes	Press	Minutes	Press	Minutes	Press	Minutes	Press
<u>0</u>	<u>103</u>	<u>0</u>	<u>348</u>	<u>0</u>	<u>374</u>	<u>0</u>	<u>503</u>
<u>5</u>	<u>225</u>	<u>3</u>		<u>5</u>	<u>377</u>	<u>3</u>	
<u>10</u>	<u>274</u>	<u>6</u>	<u>1054</u>	<u>10</u>	<u>380</u>	<u>6</u>	<u>1080</u>
<u>15</u>	<u>287</u>	<u>9</u>		<u>15</u>	<u>387</u>	<u>9</u>	
<u>20</u>	<u>303</u>	<u>12</u>	<u>1167</u>	<u>20</u>	<u>406</u>	<u>12</u>	<u>1147</u>
<u>25</u>	<u>348</u>	<u>15</u>		<u>25</u>	<u>416</u>	<u>15</u>	
<u>30</u>		<u>18</u>	<u>1209</u>	<u>30</u>	<u>429</u>	<u>18</u>	<u>1183</u>
<u>35</u>		<u>21</u>		<u>35</u>	<u>441</u>	<u>21</u>	
<u>40</u>		<u>24</u>	<u>1244</u>	<u>40</u>	<u>448</u>	<u>24</u>	<u>1202</u>
<u>45</u>		<u>27</u>		<u>45</u>	<u>458</u>	<u>27</u>	
<u>50</u>		<u>30</u>	<u>1263</u>	<u>50</u>	<u>474</u>	<u>30</u>	<u>1221</u>
<u>55</u>		<u>33</u>		<u>55</u>	<u>487</u>	<u>33</u>	
<u>60</u>		<u>36</u>	<u>1273</u>	<u>60</u>	<u>503</u>	<u>36</u>	<u>1237</u>
<u>65</u>		<u>39</u>		<u>65</u>		<u>39</u>	
<u>70</u>		<u>42</u>	<u>1282</u>	<u>70</u>		<u>42</u>	<u>1250</u>
<u>75</u>		<u>45</u>		<u>75</u>		<u>45</u>	
<u>80</u>		<u>48</u>	<u>1289</u>	<u>80</u>		<u>48</u>	<u>1257</u>
<u>85</u>		<u>51</u>		<u>85</u>		<u>51</u>	
<u>90</u>		<u>54</u>	<u>1295</u>	<u>90</u>		<u>54</u>	<u>1263</u>
<u>95</u>		<u>57</u>		<u>95</u>		<u>57</u>	
<u>100</u>		<u>60</u>	<u>1302</u>	<u>100</u>		<u>60</u>	<u>1270</u>
<u>105</u>		<u>63</u>		<u>105</u>		<u>63</u>	
<u>110</u>		<u>66</u>		<u>110</u>		<u>66</u>	<u>1276</u>
<u>115</u>		<u>69</u>		<u>115</u>		<u>69</u>	
<u>120</u>		<u>72</u>		<u>120</u>		<u>72</u>	<u>1279</u>
		<u>75</u>		<u>125</u>		<u>75</u>	
		<u>78</u>		<u>130</u>		<u>78</u>	<u>1282</u>
		<u>81</u>		<u>135</u>		<u>81</u>	
		<u>84</u>		<u>140</u>		<u>84</u>	<u>1286</u>
		<u>87</u>		<u>145</u>		<u>87</u>	
		<u>90</u>		<u>150</u>		<u>90</u>	<u>1289</u>
		<u>93</u>		<u>155</u>		<u>93</u>	
		<u>96</u>		<u>160</u>		<u>96</u>	<u>1292</u>
		<u>99</u>		<u>165</u>		<u>99</u>	
		<u>102</u>		<u>170</u>		<u>102</u>	<u>1295</u>
		<u>105</u>		<u>175</u>		<u>105</u>	
		<u>108</u>		<u>180</u>		<u>108</u>	<u>1299</u>
		<u>111</u>				<u>111</u>	
		<u>114</u>				<u>114</u>	<u>1302</u>
		<u>117</u>				<u>117</u>	
		<u>120</u>				<u>120</u>	<u>1302</u>



Initial Hydrostatic \_\_\_\_\_ 2791 \_\_\_\_\_ psi  
 IFP \_\_\_\_\_ 38 \_\_\_\_\_ psi to \_\_\_\_\_ 54 \_\_\_\_\_ psi  
 ISIP \_\_\_\_\_ 1700 \_\_\_\_\_ psi  
 FFP \_\_\_\_\_ 61 \_\_\_\_\_ psi to \_\_\_\_\_ 93 \_\_\_\_\_ psi  
 FSIP \_\_\_\_\_ 1684 \_\_\_\_\_ psi  
 Final Hydrostatic \_\_\_\_\_ 2778 \_\_\_\_\_ psi



Location St. Louis Type Test Conventional Date October 10, 1993

Anchor Length and Size 18' X 4 1/2" OD-Perf. Total Depth 5956'

Tracker Depths 5933' & 5938' Below Straddle Choke Size Bottom 5/8" Surface 1/4"

Equipment Run 2 Packers, Jars, Sample Chamber, Safty joint, Circ. sub.

Lengths: Tool 51' D.P. 5264' ID 3.8" Wt. P. ID D.C. 655' ID 2.25"

Mud Type Chemical Vls. 57 Wt. 9.0 Wtr. Loss 6.2 Cl. 1500 ppm

Recorders:

Depth <u>5950'</u>	Make <u>Kuster</u>	Cap. <u>6500</u>	Ser. No. <u>10269</u>	Inside
Depth <u>5954'</u>	Make <u>Kuster</u>	Cap. <u>6800</u>	Ser. No. <u>10217</u>	Outside
Depth _____	Make _____	Cap. _____	Ser. No. _____	Below Straddle

Pressures:

Tool on Bottom @ <u>1:15 AM.</u>	Initial Hydrostatic <u>2791</u> psi
Initial Flow <u>30</u> Min.	IFP <u>38</u> psi to <u>54</u> psi
Initial Shut-In <u>60</u> Min.	ISIP <u>1700</u> psi
Final Flow <u>60</u> Min.	FFP <u>61</u> psi to <u>93</u> psi
Final Shut-In <u>120</u> Min.	FSIP <u>1684</u> psi
Tool off Bottom @ <u>5:45 AM.</u>	Final Hydrostatic <u>2778</u> psi Temp. <u>131°F.</u>

KCS  
FEB 1  
CONFIDENTIAL

Blow: Weak increasing to fair on I.F.P., Weak increasing to strong on F.F.P.

Recovery: 1000' Gas in drill pipe. 180' Total Fluid.  
120' Oil  
60' Oil Cut Mud.      31,000 PPM Cl.  
Rw.- .15 @ 65°F.  
S.G. 1.035  
Ph./ 8

RELEASED

MAY 24 1995

FROM CONFIDENTIAL

Gas Flow:

Sampler Data:

Pressure 55 PSI

Gas 0.05 cu. ft.

Total Fluid 1800 cc

Oil 400 cc

Water 250 cc

Mud & oil emulsion 1150 cc

Oil Gravity 27.5 @ 60 °F.

Gas/Oil Ratio \_\_\_\_\_

Remarks:

Fluid Analysis:

	Cl PPM	S.G.	Ph.	Rw.
Pit:	<u>1500</u>	<u>1.000</u>	<u>9</u>	<u>2.40 @ 65°F.</u>
Sampler:	<u>45,000</u>	<u>1.050</u>	<u>7</u>	<u>.12 @ 65°F.</u>

Tester Butch Young Witnessed by: Carl Cowen

REC. 5  
TWP. 33S  
ROE. 31W  
COUNTY Seward  
STATE KANSAS  
TICKET NO. 3573

Gaboot Oil & Gas Corporation OPERATOR  
Massoni #3-5  
WELL NAME & NO.  
3  
TEST #  
5938' - 5956'  
TEST INTERVAL

**Pressure Break Down**

Test ticket no. 3573 Recorder no. 10269 Capacity 6500 Rec. Depth. 5950'

Initial Flow pressure <u>38</u> to <u>54</u>	Time	Given <u>30</u>	Computed <u>30</u>
Initial Closed in pressure <u>1700</u>		<u>60</u>	<u>60</u>
Final Flow pressure <u>61</u> to <u>93</u>		<u>60</u>	<u>60</u>
Final Closed-in pressure <u>1684</u>		<u>120</u>	<u>120</u>

Initial Hydrostatic pressure 2791 Final Hydrostatic press. 2778 Temp 131°F.

Initial Flow Press.		Initial Closed in Press.		Final Flow Press		Final Closed in Press.	
Minutes	Press	Minutes	Press	Minutes	Press	Minutes	Press
0	--	0	54	0	--	0	93
5	38	3	138	5	61	3	
10	41	6	303	10	64	6	390
15	45	9	677	15	67	9	
20	48	12	1131	20	70	12	1077
25	51	15	1347	25	74	15	
30	54	18	1450	30	77	18	1337
35		21	1508	35	80	21	
40		24	1549	40	83	24	1427
45		27	1581	45	87	27	
50		30	1604	50	90	30	1475
55		33	1623	55	90	33	
60		36	1639	60	93	36	1511
65		39	1652	65		39	
70		42	1662	70		42	1540
75		45	1672	75		45	
80		48	1681	80		48	1562
85		51	1688	85		51	
90		54	1694	90		54	1581
95		57	1697	95		57	
100		60	1700	100		60	1594
105		63		105		63	
110		66		110		66	1607
115		69		115		69	
120		72		120		72	1620
		75		125		75	
		78		130		78	1633
		81		135		81	
		84		140		84	1639
		87		145		87	
		90		150		90	1646
		93		155		93	
		96		160		96	1655
		99		165		99	
		102		170		102	1665
		105		175		105	
		108		180		108	1672
		111				111	
		114				114	1678
		117				117	
		120				120	1684

WELL DATA

WELL: S-2420 SEC: 5 TWP: 32S RANG: 02 COUNTY: LeFlore STATE: OK

FORMATION NAME: \_\_\_\_\_ TYPE: \_\_\_\_\_  
 FORMATION THICKNESS: \_\_\_\_\_ FROM: \_\_\_\_\_ TO: \_\_\_\_\_  
 INITIAL PROD. OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
 PRESENT PROD. OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
 COMPLETION DATE: \_\_\_\_\_ MUD TYPE: Spud MUD WT: 9.3  
 RACKER TYPE: \_\_\_\_\_ SET AT: \_\_\_\_\_  
 BOTTOM HOLE TEMP: \_\_\_\_\_ PRESSURE: \_\_\_\_\_  
 MISC DATA: \_\_\_\_\_ TOTAL DEPTH: \_\_\_\_\_

JOB DATA

CALLS OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-1-93</u>	DATE <u>10-1-93</u>	DATE <u>10-1-93</u>	DATE <u>10-1-93</u>
TIME <u>12:00</u>	TIME <u>09:05</u>	TIME <u>22:5</u>	TIME <u>12:00</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>On location</u>	<u>32438</u>	<u>LeFlore OK</u>
<u>41525</u>	<u>400-40</u>	<u>LeFlore OK</u>
<u>R. Brown</u>	<u>52997</u>	<u>"</u>
<u>24360</u>	<u>7576 (0)</u>	<u>"</u>
<u>H.P. Teller</u>	<u>50737</u>	<u>"</u>
<u>MCWT</u>	<u>7620</u>	<u>Hugoton OK</u>
<u>GUST</u>	<u>4673</u>	<u>"</u>
	<u>4734</u>	<u>"</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>Swivel collar</u>	<u>1</u>	<u>H</u>
FLOAT SHOE		<u>0</u>
GUIDE SHOE <u>Tex. Pac.</u>	<u>1</u>	<u>W</u>
CENTRALIZERS <u>S-4</u>	<u>2</u>	<u>C</u>
BOTTOM PLUG		<u>H</u> <u>0</u>
TOP PLUG		<u>0</u>
HEAD <u>OCPL</u>	<u>1</u>	<u>W</u>
RAMMER <u>Car Basket</u>	<u>1</u>	<u>C</u>
OTHER <u>Level Clamp</u>	<u>1</u>	<u>0</u>

MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API  
 DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
 ACID TYPE \_\_\_\_\_ GAL \_\_\_\_\_ %  
 ACID TYPE \_\_\_\_\_ GAL \_\_\_\_\_ %  
 ACID TYPE \_\_\_\_\_ GAL \_\_\_\_\_ %  
 SURFACTANT TYPE \_\_\_\_\_ GAL \_\_\_\_\_ IN  
 NE AGENT TYPE \_\_\_\_\_ GAL \_\_\_\_\_ IN  
 FLUID LOSS AGENT TYPE \_\_\_\_\_ GAL \_\_\_\_\_ IN  
 GELLING AGENT TYPE \_\_\_\_\_ GAL-LB. \_\_\_\_\_ IN  
 FRIC RED. AGENT TYPE \_\_\_\_\_ GAL-LB. \_\_\_\_\_ IN  
 BREAKER TYPE \_\_\_\_\_ GAL-LB. \_\_\_\_\_ IN  
 BLOCKING AGENT TYPE \_\_\_\_\_ GAL-LB. \_\_\_\_\_ IN  
 PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
 OTHER \_\_\_\_\_  
 OTHER \_\_\_\_\_

DESCRIPTION OF JOB: 232 Swire

CONSERVATION

JOB DONE THRU: TUBING  CASING  ANNUAL  TDG/ANN

CUSTOMER REPRESENTATIVE: Carl Camp

HALLIBURTON OPERATOR: B. Nicholas COPIES REQUESTED: \_\_\_\_\_

CEMENT DATA

STAGE	NUMBER OF BAGS	CEMENT	BRAND	BULK BAGGED	ADDITIVES	YIELD CU.FT./BK.	MIXED LB./GAL.
	<u>525</u>	<u>Port. H.C.</u>	<u>H</u>	<u>0</u>	<u>3% C.C. 1/2% Sulfate</u>	<u>12.4</u>	<u>2.00</u>
	<u>150</u>	<u>Port.</u>	<u>H</u>	<u>0</u>	<u>2% C.C.</u>	<u>16.4</u>	<u>1.00</u>

PRESSURES IN PSI

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_  
 BUILT-IN INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_  
 HYDRAULIC HORSEPOWER \_\_\_\_\_  
 ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_  
 FEET 38.25 REASON to solve joint

SUMMARY

VOLUMES

PRELUMEN: BEL-GAL \_\_\_\_\_ TYPE \_\_\_\_\_  
 LOAD & BKING: BEL-GAL \_\_\_\_\_ PAD: BEL-GAL \_\_\_\_\_  
 TREATMENT: BEL-GAL \_\_\_\_\_ DISPL. BEL-GAL 23.22  
 CEMENT SLURRY: BEL-GAL 300.91 @ 27.85  
 TOTAL VOLUME: BEL-GAL \_\_\_\_\_

REMARKS

Case: 12 B.B. Cement



DATE: 10-19-91 PAGE NO.

JOB LOG FORM 2013 R-3

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Cobot 210 Gos		3-5		Mossman		OIO		507768	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0700								called out
	0905								on location
									ORIGINAL
									Rig up
									Safety meeting
									discuss job with Con Queen
									100 Circulate with Mud Pump
	1225	6	204	✓		200			Mix lead cement
	1305	6	28.8	✓		200			Mix to 1 cement
	1:10			✓		0			Release plug
		6	94	✓		500			Displace Plug
	1237	1				900			Lead Plug
						0			float held
									KCC
									FEB 1
									CONFIDENTIAL
									Circulated 122 BBL Cement

RELEASED  
 STATE OF TEXAS  
 MAY 24 1995  
 CONSERVATION DIVISION  
 FROM CONFIDENTIAL

WELL DATA

FIELD \_\_\_\_\_ SEC \_\_\_\_\_ TWP \_\_\_\_\_

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_

FORMATION THICKNESS FROM \_\_\_\_\_ TO \_\_\_\_\_

INITIAL PROD. OIL \_\_\_\_\_ SPD. WATER \_\_\_\_\_ SPD. GAS \_\_\_\_\_ MCFD \_\_\_\_\_

PRESENT PROD. OIL \_\_\_\_\_ SPD. WATER \_\_\_\_\_ SPD. GAS \_\_\_\_\_ MCFD \_\_\_\_\_

COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WY \_\_\_\_\_

PACKER TYPE \_\_\_\_\_ ORIGINAL \_\_\_\_\_

BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_

MISC DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

NO.	WELL	SIZE	FROM	TO	MAXIMUM PER ALLOWABLE
CASING	N 165	5 1/2	KB	6105	2000
LINEP					
TUBING					
OPEN HOLE					SHOTS/FT.
PERFORATIONS					
PERFORATIONS					
PERFORATIONS					

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR 55	1	H6
FLOAT SHOE 55	1	H6
GRIDE SHOE		W
CENTRALIZERS R3 Fluid	31	CO
ROTON PESS First Coil	2	CO
TOP PLUG 3 Stage Plug Set	1	
HEAD		
WASHER D/T Tool	2	
OTHER Basket	2	

DATE	TIME	DATE	TIME	DATE	TIME
10-11-93	12:00	10-11-93	5:30	10-11-93	7:30

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
O Nicholas	37458	Liberal
W Fox	52938	Liberal
H Dadden	50737	Houston
R Largent	5839	Houston
M HOWE	3626	
F 7343	4515	

MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL./AIR

DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL./AIR

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

ACID TYPE \_\_\_\_\_ GAL.

ACID TYPE **RELEASED** GAL.

ACID TYPE \_\_\_\_\_ GAL.

SURFACTANT TYPE **MAY 2-4 1995** GAL.

ME AGENT TYPE \_\_\_\_\_ GAL.

FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL-LB.

GELLING AGENT TYPE \_\_\_\_\_ GAL-LB.

FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL-LB.

BREAKER TYPE \_\_\_\_\_ GAL-LB.

BLOCKING AGENT TYPE \_\_\_\_\_ GAL-LB.

PERFAC BALLS TYPE \_\_\_\_\_ QTY.

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

DEPARTMENT **Cement**

DESCRIPTION OF JOB **3 stage 5 1/2 long string**

JOB DONE THRU: TUBING  CASING  ANNULUS  TRG/ANN

CUSTOMER REPRESENTATIVE **Carl Cowan**

HALLIBURTON OPERATOR **Carl Newman**

COPIES REQUESTED \_\_\_\_\_

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./BK.	MIXED LB./GAL.
1	130	Prem 2020			Sub 2 stage 10' 1/2 set 12% KCl in 2%	1.54	13.9
2	140	1			DM 1.5% C.F. 3	1.54	13.9
3	130	1			1	1.54	13.9

PRESSURES IN PSI

SUMMARY

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_

SHUT-IN INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_

HYDRAULIC HORSEPOWER \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_

AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DWPL \_\_\_\_\_ OVERALL \_\_\_\_\_

CEMENT LEFT IN PIPE \_\_\_\_\_

FEET \_\_\_\_\_ REASON \_\_\_\_\_

PRESURE: BEL-GAL **10 2nd stage** TYPE **Super flush**

LOAD & BKDN: BEL-GAL \_\_\_\_\_ PAID: BEL-GAL \_\_\_\_\_

TREATMENT: BEL-GAL **70 gal 2nd stage**

CEMENT SLURRY: BEL-GAL **109**

TOTAL VOLUME: BEL-GAL \_\_\_\_\_

REMARKS

**TD 6105**  
**2nd stage 4636**  
**3rd stage 3455**

CUSTOMER: HALLIBURTON LIBERAL  
 DATE: 10-11-93  
 STAGE: 3



JOB LOG FORM 2013 R-3

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Cobalt Oil Co		3-5		Masson		3 Stair 5h		507774	
CHART NO.	TIME	DATE (YR/M)	VOLUME (BBL) (GAL)	PUMPS		TUBING	CASING	DESCRIPTION OF OPERATION AND MATERIALS	
				F	G				
	1540							ON Location	
								Rig up	
								Safety meeting	
								Discuss Job with Carl Cowan	
	1730							Start Pipe and Float Equip	
	2105							Circulate with Rig	
	2130		10				350	Start Superflush	
	2134		10				300	Start Gel	
	2140		35.6				300	Start Cement	
	2147							Drop Plug	
	2149		33				300	Start Flush Water	
	2154		111				250	Start flush w mud	
	2215						1000	Land Plug	
	2217							KCC	
	2240						1200	FEB 1 Psi up BOM NOT There	
	2250						1250	CONFIDENTIAL Psi up open Tool	
	2252		12					Pump mud	
	2258							Hook up to Rig to Circulate	
	0315		10				200	Start Super Flush	
	0319		10				250	Start gel	
	0324		384				200	Start cement	
	0335							Drop Plug	
	0337		20				200	Start water Displacement	
	0342		90				250	Start mud Displacement	
	0359						1200	Land Plug	
	0416							Drop opening BOM	
	0418						1250	Psi up on Tool	
	0420		12				200	Tool open	
	0910		10				200	Pump mud	
	0414		10				300	Start Superflush	
	0917		35.6				250	Start Gel	
	0922		82.2				250	Start Cement	
	0942						1000	Release Plug and Displace	
	0942						1250	Land Plug	
	0944							Close Tool	
								Release Psi held	
								Job Complete Thank You	