

1852c

Para Anadarko Deer Lake

Report # 1, 18/01/2002 00:00

Daily Completion and Workover Report

APIUMN	Fish Name	Contract	KB Elev (m)	Gr Elev (m)	PBID (mKB)	TR Elev (m)	KE-TH (m)	Latitude (DMS)	Longitude (DMS)
C-23-I/94-O-06	Deer Lake	Paramont Resources	454.80						

AFENo	Objective	Start Date
01B220014	To complete / test the Debolt for hydrocarbon production	17/01/2002

Perforations				Fluid Movement						
Shot Dens (shots/m)	Phasing	Top (mKB)	Bot (mKB)	Zone	Fluid	To well (m³)	From well (m³)	In Tanks (m³)	Losses (m³)	From losses (m³)

Daily Cost Total	Cur Cost To Date	Operations at Report Time	Rpt No	T-C	Wind	P (lub) (kPa)	P (css) (kPa)	Rig time (hrs)
18,350.00	18,350.00	Rigging up	1	-17	Trace			10.00

Cur (hrs)	Comment	Sum Cur (hrs)
10.00	Daily walk around lease inspection, held a safety and procedure meeting with all on site personal. load and move camp. Move rig from C-02 to C-23-I. Return with trucks and move rig equipment / shacks to C-23-I. Rig up camp. Rig equipment will be spotted in the morning. pipe to arrive in the afternoon. 400 bbl tanks and fluid to arrive in the afternoon. Wait on Rig Equipment	10.00

Tubing Components

Run In Hole (mKB) Top (mKB) Bot (mKB)

Casing Details

Surface, 160.00

Max OD (mm)	Spring Min Nominal ID (mm)	Spring Unit Min (mm)	Bottom or Set Depth (mKB)
219.1	205.7		160.00

Production, 929.00

Max OD (mm)	Spring Min Nominal ID (mm)	Spring Unit Min (mm)	Bottom or Set Depth (mKB)
139.7	127.3		929.00

Para Anadarko Deer Lake

Directions To Well

From Fort Nelson British Columbia. Travel North / West on the Alaska Highway to Highway 77 Turn and travel North towards Fort Laird Travel 74 km the turn and travel east 15 km to location

18/01/2002 00:00

Daily Cost Summary

APPROVAL	Field Name	Area	Operator	KB Elev (m)	Gr Elev (m)	PBTD (miles)
C-23-1 / 94-O-06	Deer Lake	N/E B.C.	Paramont Resources	454.80		

Daily Summary

Start of report period	End of report period	Daily Cost Total	Cum. Cost To Date
17/01/2002 08:00	18/01/2002 00:00	18,350.00	18,350.00

Operations at Report Time:

Rigging up

Costs

Description	Vendor	Code	Sub-code	PO	Ticket	Cost (\$)	Note
Rig Operation	Precision Well Services					6,950	10 hours and mileage
Camp/Rig Move	Formula Transport						

Rental Item Costs

Item	Ticket	Cost (\$)	Note
Supervision from Fire Creek		950	
Camp Rental and Catering from Beaver Enterprises		3,150	
Production Testing Equipment from Opsco		3,100	
Medic from Iroc		1,200	
Slickline Services from Opsco		1,900	
Vacume truck from Formula		1,100	

Para Anadarko Arrowhead C-02

Report # 21, 17/01/2002 00:00

Daily Completion and Workover Report

AP/WOWT	Field Name	Operator	KB Elev (m)	Gr Elev (m)	PBTD (mKb)	TTH Elev (m)	KB-TTH (m)	Latitude (DMS)	Longitude (DMS)
300C028040123000	Arrowhead	Paramount Resources	454.10	447.20	679.96	448.88	5.21		
AFE No.	Objective							Start Date	
01N220001	To complete Chinkeh formation for hydrocarbon production							27/12/2001	

Perforations					Fluid Movement						
Shot Data (shots/m)	Phasing (°)	Top (mKb)	Blm (mKb)	Zone	Fluid	To well (m³)	From well (m³)	In Tank (m³)	Core to recovery (m³)	To losses (m³)	From losses (m³)
17.0	60	605.00	609.00	Chinkeh	Water	13.6	29.6	64.0	-16.0	110.0	62.0

Daily Cost Total	Cum. Cost To Date	Operations at Report Time	Rel No	T (°C)	Wind	P (lub) (KPa)	P (cas) (KPa)	Rig Time (hrs)
19,760.00	775,701.25	Moving to C-23-I	21					

Our (hrs)	Comment	Sum Our (hrs)
16	Daily walk around lease inspection, Held a safety and procedure meeting with all on site personal, read and record well pressures, resume flowing the well. well making $\pm 8.2 \text{ } 10^3 \text{ m}^3/\text{day}$ flow till 11:00 hours. Shut in well, rig in Opsco slickline, run a gauge ring to the R nipple @ $\pm 802.69 \text{ mKb}$, pull out of the hole with slickline and run in with RZG tubing plug and set in the R nipple @ 802.69 mKb , pull out of the hole and bleed tubing down to Zero. Monitor tubing for half hour, plug holding good. rig out slickline. Prep to rig out rig and equipment. Rig out and rack on location, prep to move in the morning. Camp will be moved first thing in the morning. pipe is orderd for C-23-I for friday afternoon. Rental stack will be shipped Friday. All orifices are sealed on C-02, and the surface casing vent has been properly installed, A load of gravel will be hauled in friday afternoon to fill in the cellar.	

Tubing Components

Item Desc Top (mKb) Blm (mKb)

Casing Details

Surface, 504.00

Max OD (mm)	Min ID (mm)	String Drift Min (mm)	Bottom or Set Depth (mKb)
339.7	320.4		504.00

Production, 694.00

Max OD (mm)	Min ID (mm)	String Drift Min (mm)	Bottom or Set Depth (mKb)
244.5	222.4		694.00

Para Anadarko Arrowhead C-02

Directions To Well

From Fort Nelson British Columbia. Travel North / West on the Alaska Highway to Highway 77 Turn and travel North towards Fort Laird. Travel to the NWT border, Travel an additional 71.5 km. Turn and travel East 28.5 km to a beaver camp, Turn and travel south 0.8 km to location.

17/01/2002 00:00

Daily Cost Summary

APPLUM	Field Name	Area	Operator	Kb Elev (m)	Gr Elev (m)	P&ID (mKb)
300C026040123000	Arrowhead	60" 40' 123" 00'	Paramont Resources	454.10	447.20	679.96

Daily Summary

Start of report period	End of report period	Daily Cost Total	Cum. Cost To Date
16/01/2002 00:00	17/01/2002 00:00	19,760.00	775,701.25

Operations at Report Time

Moving to C-23-I

Rental Item Costs

Item	Ticket	Cost (\$)	Qty
Supervision from Fire Creek		950	
Vacume truck from Formula		1,100	
Camp Rental and Catering from Beaver Enterprizes		3,150	
Medic from Iroc		1,000	
Slickline Services from Opsco		1,900	
Wellsite Shacks from Deranway		310	
Boiler from Precision		750	
Production Testing Equipment from Opsco		3,100	
BOP Rental from Weatherford		600	
Service Rig from Precision		6,900	
		0	

1857C

Para Anadarko Arrowhead C-02

Report # 20, 16/01/2002 00:00

Daily Completion and Workover Report

APPROV 900C026040123000	Field Name Arrowhead	Operator Paramount Resources	KB Elev (m) 454.10	Gr Elev (m) 447.20	PBTD (mKB) 679.96	TH Elev (m) 448.89	KB-TH (m) 5.21	Latitude (DMS)	Longitude (DMS)
AFE No. 01N220001		Objective To complete Chinkeh formation for hydrocarbon production						Start Date 27/12/2001	
Perforations					Fluid Movement				
Shot Date (shot/m)	Phasing (°)	Top (mKB)	Blm (mKB)	Zone	Fluid	To well (m³)	From well (m³)	At 100m (m³)	Left to recover (m³)
17.0	60	605.00	609.00	Chinkeh	Water	13.6	29.6	64.0	-16.0
Daily Cost Total 43,680.00		Cum. Cost To Date 755,941.25		Operations at Report Time flowing well		Rate No 20	T (°C) -15	Wind West @ 5 km/h	Pressure (kPa) Flow (kPa) Flow Time (hrs) 12.00

Day (hrs)	Comments	Sum (hrs)
	07:00 hours Daily walk around lease inspection, held a safety and procedure meeting with all on site personnel. read and record shut in well pressure. SITP vac, SICP test, prep to pull tubing pull and stand remaining 30 joints, lay out bit-scraper and crossovers. make up and run in the hole with 1- wireline reentry guide, 1-10' pup joint, 1-57.15mm X 56.68mm baker RN nipple, 2 joints of tubing 1- baker 57.15mm F nipple, 1-10' pup joint, 1-A3 lokset packer, 1- on-off connector c/w baker 58.7mm F profile, 1- 213mm X 73mm tubing centralizer, 1-10' pup joint, 60 joints of tubing 1-2' pup joint land the hanger and set the packer in 4 dan compression @ 578.35 mKB CE, tubing intake @ 606.12 mKB. Hand pump 800 liters of diesel down the casing. Pump an additional 3.72 m³ of 3 % KCL water to fill and pressure test the casing to 14000 kPa. Rig out the work floor, strip off the 11" stack, strip off the 11" hanger and strip on 7" tubing hanger flange / hanger land and bolt in place. Hoist hanger and install new hanger rubbers, re- land and assemble the flow tree. Rig up the work floor / testers / 73mm swabbing equipment, run in the hole and tag an initial fluid level of 30m pull 7 swabs and recover 4.5 m³ of water. all samples had a ph-7 and a sel 28000 ppm. Well flowing small gas and some fluid, 21:00 hours shut in to stop cock, 23:00 hours open well and attempt to flow recover an additional 0.82 m³ water. 01:00 well died off, shut in to stop cock. tubing pressure built to 3750 kPa in 3.5 hours open well and attempt to flow. Recover water and drilling mud (collected samples). 04:30 Shut in to thaw meter run. reopen and attempt to flow.	

Tubing Components

Item Desc	Top (mKB)	Bot (mKB)
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Casing Details

Surface, 504.00

Max OD (mm)	Min ID (mm)	String Out Min (mm)	Bottom or Set Depth (mKB)
339.7	320.4		504.00

Production, 694.00

Max OD (mm)	Min ID (mm)	String Out Min (mm)	Bottom or Set Depth (mKB)
244.5	222.4		694.00

Para Anadarko Arrowhead C-02

Directions To Well

From Fort Nelson British Columbia. Travel North / West on the Alaska Highway to Highway 77 Turn and travel North towards Fort Laird. Travel to the NWT border, Travel an additional 71.5 km. Turn and travel East 28.5 km to a beaver camp, Turn and travel south 0.8 km to location.

18/01/2002 00:00

Daily Cost Summary

APU/UM	Field Name	Area	Operator	Kb Elev (m)	Gr Elev (m)	FBD (m/Kb)
300C026040123000	Arrowhead	60" 40' 123" 00'	Paramont Resources	454.10	447.20	679.96

Daily Summary

Start of report period	End of report period	Daily Cost Total	Cum. Cost To Date
15/01/2002 00:00	18/01/2002 00:00	43,660.00	755,941.25

Operations at Report Time

flowing well

Rental Item Costs

Item	Ticket	Cost (\$)	Note
Supervision from Fire Creek		850	
Vacume truck from Formula		1,100	
Camp Rental and Catering from Beaver Enterprises		3,150	
Medic from Iroc		1,000	
Slickline Services from Opsco		1,800	
Wellsite Shacks from Deranway		310	
Boiler from Precision		750	
Production Testing Equipment from Opsco		3,100	
BOP Rental from Weatherford		600	
Service Rig from Precision		6,900	
Down hole tools from Baker		23,900	

PARAMOUNT RESOURCES LTD
C-02 HWT
Start Test Date: 2001/01/01

FieldNotes

Field Measurements

PARA BERKLEY ARROWHEAD C-02
Formation: CHINKEH

Calc
Inc

Clock	Choke	Tub	Tubin	Casing	Static	Diff	Notes	Gas	Cum.	Measure	Calc Inc	OH	Cum.	Calc Inc	BSW Vol	Water	Salinity	pH					
Date	Time	C	Size	Temp	Pres	Pres	#	Pres	Pres	Temp	Orifice	Rate	Gas	Fld Vol	Fld Gain	BSW	Gain	OH	BSW	Q	Water	Salinity	pH
yyyy/mm/dd	hh:mm:ss	mm	°C	kPa(g)	kPa(g)	°APKPa(g)	kPa	°C	mm	10 ³ m ³ /	10 ³ m ³	m ³	m ³	%	m ³	m ³	m ³	m ³	m ³	m ³	ppm		

817	2002/01/15	07:01:00	Arrive on location and record pressures. Tbg. on vacuum and csg. slight blow, TB TM.																		
818		08:00:00	Start in hole with tbg.																		
819		12:00:00	Finish running tbg. set packer and pressure test.																		
820		14:00:00	Rig out BOP's ending on wellhead.																		
821		16:00:00	Rig up to swab.																		
822		16:20:00	Swab #1. Tag fluid @ 26m. Pull from 430m.																		
823		16:20:00				0	0						1.121	1.121	100	0.000	0.000	1.121	30.891	28000	7
824		16:40:00	Swab #2. Tag fluid @ 181m. Pull from 525m.																		
825		16:40:00				0	0						2.008	0.888	100	0.000	0.000	0.888	31.739		
826		16:50:00	Swab #3. Tag fluid @ 218m. Pull from 525m. Trace of burnable gas.																		
827		16:50:00				0	0						2.754	0.745	100	0.000	0.000	0.745	32.484	28000	7
828		17:00:00	Swab #4. Tag fluid @ 428m. Pull from 525m.																		
829		17:00:00				0	0						3.018	0.269	100	0.000	0.000	0.269	32.743		
830		17:10:00	Swab #5. Tag fluid @ 428m. Pull from 525m.																		
831		17:10:00				0	0						3.410	0.397	100	0.000	0.000	0.397	33.140	28000	7
832		17:15:00	Swab #6. Tag fluid @ 477m. Pull from 525m.																		
833		17:15:00				0	0						3.745	0.336	100	0.000	0.000	0.336	33.476		
834		17:25:00	Swab #7. Tag fluid @ 477m. Pull from 525m.																		
835		17:25:00				0	0						4.498	0.752	100	0.000	0.000	0.752	34.228	28000	7
836		17:25:00	Well trying to form. Flow on 24.1lb/min. got line. Rig put over equipment due to cartridges.																		
837		17:30:00	38.10			0	0						4.185	0.900		0.000	0.000	0.900	34.328		
838		17:25:00	Several swabs pulled for a total recovery of 4.458m ³ of fluid.																		
839		18:00:00	38.10			0	80						4.498	0.000		0.000	0.000	0.000	34.228		
840		18:30:00				0	80						4.842	0.344	100	0.000	0.000	0.344	34.572	28000	7
841		18:40:00	Starting to slug fluid.																		
842		19:00:00	38.10			0	86						4.811	0.069	100	0.000	0.000	0.069	34.841	28000	7
843		19:30:00				0	86														
844		20:00:00	38.10			0	80						5.187	0.278	100	0.000	0.000	0.278	34.917	28000	7
845		20:30:00				0	80						5.225	0.038	100	0.000	0.000	0.038	34.956		

2002/01/15 07:01:00 To 2002/01/16 06:01:00

Gas	0.879	Cum.	53.456 10 ³ m ³
Oil	0.000	Cum.	0.000 m ³
Water	6.072	Cum.	35.802 m ³

PARAMOUNT RESOURCES LTD
C-02 NWT
Start Test Date: 2001/01/01

FieldNotes

Field Measurements

PARA BERKLEY ARROWHEAD C-02
Formation: CHINKEH

													Calc		Inc							
		Clock	Choke	Tub	Casing	Static	DIFF	Mete	Gas	Cum.	Measure	Calc	Inc	Oil	Cum.	Calc	Inc	BSW	Vol			
Date	Time	C	Size	Temp	Press	Press	#	Press	Temp	Orifice	Rate	Gas	Fld Vol	Fld Gain	BSW	Gain	OH	BSW	Q	Water	Salinity	pH
yyyy/mm/dd	hh:mm:ss	mm	°C	kPa(g)	kPa(g)	*AP	kPa(g)	kPa	°C	mm	10 ³ m ³	10 ³ m ³	m ³	m ³	%	m ³	m ³	m ³	m ³	ppm		
2002/01/15	21:00:00	34.70		70									2.278	0.000	100	0.004	0.000	0.000	0.000	20000	7	
547	21:00:00	Shut in at manifold do pressure build up's.																				
548	21:05:00			100	70																	
549	21:10:00			200	70																	
550	21:15:00			395	70																	
551	21:30:00			845	70																	
552	21:45:00			1420	70																	
553	22:00:00			1870	70																	
554	22:30:00			2850	80																	
555	23:00:00			2890	80																	
556	23:00:00	Open well to flow on 32/64 choke or 12.7mm.																				
557	23:05:00			1470	80																	
558	23:05:00	Fluid to surface. PH 7 SAL 20000ppm.																				
559	23:10:00			850	80																	
560	23:15:00			360	80																	
561	23:30:00	12.70						0	0.00	10	25.40	0.000	52.577									
562	23:30:00	12.70	8	170	80			10	0.98	24		3.969	52.577	8.072	0.817	100	0.004	0.000	0.817	35.802	20000	7
563	23:31:00	Meter in service																				
564	23:43:00		4	180	80			10	4.98	24	25.40	2.840	52.613									
565	2002/01/16 00:00:00	12.70	4	209	80			8	5.85	24	25.40	3.149	52.645	8.072	0.000		0.004	0.000	0.000	35.802		
566	00:01:00	Shut in at manifold meter out of service. stop cock well.																				
567	00:05:00			900	80																	
568	00:10:00			1100	80																	
569	00:15:00			1370	80																	
570	00:30:00			2120	80																	
571	00:45:00			2810	80																	
572	01:00:00			2850	80																	
573	01:30:00			3180	80																	

2002/01/15 07:01:00 To 2002/01/16 06:01:00

Gas 0.879 Cum. 53.458 10³m³
Oil 0.000 Cum. 0.000 m³
Water 6.072 Cum. 35.802 m³

FieldNotes

Field Measurements

																			Calc Inc					
		Clock	Choke	Tub	Tubin	Casing	Static	Diff	Meta	Gas	Cum.	Measure	Calc Inc	OH	Cum.	Calc Inc	BSW Vol							
Date	Time	C Size	Tem	Pres	Pres	#	Pres	Pres	Tem	Orifice	Rate	Gas	Fld Vol	Fld Gain	BSW	Gain	OH	BSW G	Water	Salinity	pH			
yyyy/mm/d	hh:mm:ss	mm	°C	kPa(g)	kPa(g)	°AP	kPa(g)	kPa	°C	mm	10 ⁻³ m ³ /	10 ⁻³ m ³	m ³	m ³	%	m ³	m ³	m ³	m ³	ppm				
574	2002/01/18	02:00:00			3420	50																		
575		02:30:00			3580	50																		
576		03:00:00			3670	50																		
577		03:30:00			3760	50							0.000	-4.072		0.000	0.000	-4.072	33.802					
578		03:31:00	Vac truck took 6.072 m3 fluid out of p-tank.																					
579		04:00:00			3890	50																		
580		04:00:00	Open up at manifold																					
581		04:05:00			1970	50																		
582		04:06:00	Fluid to surface PH-7-SAL-26000.																					
583		04:10:00			1890	50																		
584		04:15:00			1820	50																		
585		04:18:00	Meter in service																					
586		04:30:00	12.70	4	1360	50		5.6	11.85	22	25.40	5.507	53.498	0.000	0.000		0.000	0.000	0.040	35.802				
587		04:35:00	Change orifice to 50.80mm.																					
588		04:40:00	Shut in freezing sp. shut in at manifold.																					
589		05:00:00			3300	50																		
590		05:30:00			3430	50																		
591		06:00:00	12.70		3560	50					50.80													
592	2002/01/18	06:01:00	Open up to flow.																					

1857 C

Para A. Arko Arrowhead C-02

Report # 19, 15/01/2002 00:00

Daily Completion and Workover Report

APR/UNI	Field Name	Operator	KB Elev (m)	Gr Elev (m)	PBTD (mKB)	TH Elev (m)	KB-TH (m)	Latitude (DMS)	Longitude (DMS)
300C026040123000	Arrowhead	Paramount Resources	454.10	447.20	679.96	448.89	5.21		

APR No	Objective	Start Date
01N220001	To complete Chinkeh formation for hydrocarbon production	27/12/2001

Perforations					Fluid Movement						
Shot Dens (shots/m)	Phasing (°)	Top (mKB)	Btm (mKB)	Zone	Fluid	To well (m³)	From well (m³)	In Tanks (m³)	Carried over (m³)	To Baffle (m³)	From Baffle (m³)
17.0	60	605.00	809.00	Chinkeh	Water	13.6	29.6	84.0	-16.0	110.0	62.0

Daily Cost Total	Cum. Cost To Date	Operations at Report Time	Hpt No	T (°C)	Wind	P(tub) (kPa)	P(cas) (kPa)	Log Time (hrs)
19,760.00	712,281.25	Pulling tubing	19	-11		0	0	10.00

Dur (hrs)	Comment	Sum Dur (hrs)
	07:00 hours, Daily walk around lease inspection, Held a safety and procedure meeting with all on site personal, read and record shut in well pressures, SITP slight vacume, SICP slight vacume. prep to pull out of the hole. pull and lay out tubing hanger (noticed 2-3 dan of drag) pull 17 joints slowly to try and ensure retrieval of the packer. We lost all drag on joint # 18 resume slowly out of the hole. pull and lay out 60 joints of tubing. The last joint was broken off 9.14m from collar to end, leaving 0.46m of tubing on top of the on / off connector. The last 20 joints of tubing out of the hole are bent and buckled, the middle of the string is slightly bent. I will salvage the straight ones and dispose of the bent ones. (the top / first joint was also bent). by looking @ the tubing break one could assume that the tubing buckled so hard that it went past itself (it folded over itself, flattened and split the pipe open). Make up and run in the hole with casing scraper, run to 615.33 and tag / spud the fish, work top of fish down to 638.25 mKB. attempt to work further. (possible sand below tail pipe). Pull and lay out 7 joints, pull and stand 30 joints and leave 30 joints in the hole as a kill string. cap and secure the well and shut down operations for the day. Baker didn't send the required nipples for the tail pipe and can't get them here on till morning. We should consider setting the packer one full joint higher due to possible casing damage from packer failure. I managed to get a connection and e mail the tubing pic's.	

Tubing Components			Casing Details			
Item Desc	Top (mKB)	Btm (mKB)	Surface, 604.00			
			Max OD (mm)	Min ID (mm)	String Drift Min (mm)	Bottom or Set Depth (mKB)
			339.7	320.4		504.00
Production, 694.00						
			Max OD (mm)	Min ID (mm)	String Drift Min (mm)	Bottom or Set Depth (mKB)
			244.5	222.4		694.00
Para Anadarko Arrowhead C-02						
Directions To Well						
From Fort Nelson British Columbia. Travel North / West on the Alaska Highway to Highway 77 Turn and travel North towards Fort Laird. Travel to the NWT border, Travel an additional 71.5 km. Turn and travel East 28.5 km to a beaver camp. Turn and travel south 0.8 km to location.						

15/01/2002 00:00

Daily Cost Summary

AP#UWI	Field Name	Area	Operator	KB Elev (m)	Gr Elev (m)	P8TD (mKJ)
300C028040123000	Arrowhead	80" 40' 123" 00"	Paramont Resources	454.10	447.20	679.96

Daily Summary

Start of report period	End of report period	Daily Cost Total	Cum. Cost To Date
14/01/2002 00:00	15/01/2002 00:00	19,780.00	712,281.25

Operations at Report Time

Pulling tubing

Rental Item Costs

Item	Ticket	Cost (\$)	Note
Supervision from Fire Creek		950	
Vacume truck from Formula		1,100	
Camp Rental and Catering from Beaver Enterprizes		3,150	
Medic from Iroc		1,000	
Slickline Services from Opsco		1,900	
Wellsite Shacks from Deranway		310	
Boller from Presicion		750	
Production Testing Equipment from Opsco		3,100	
BOP Rental from Weatherford		600	
Service Rig from Precision		6,900	10 hours

Para Anadarko Arrowhead C-02

Report # 18, 14/01/2002 00:00

Daily Completion and Workover Report

API/Well	Field Name	Operator	KB Elev (m)	Gr Elev (m)	RB TO (mKB)	TH Elev (m)	KB-TH (m)	Latitude (DMS)	Longitude (DMS)
300C028040123000	Arrowhead	Paramont Resources	454.10	447.20	679.96	448.89	5.21		

AFE No	Objective	Start Date
01N220001	To complete Chinkeh formation for hydrocarbon production	27/12/2001

Perforations					Fluid Movement						
Shot Dens (shots/m)	Pressing (%)	Top (mKB)	Bot (mKB)	Zone	Fluid	To well (m³)	From well (m³)	In Tank (m³)	Losses (m³)	To Lease (m³)	From Lease (m³)
17.0	80	605.00	609.00	Chinkeh	Water	13.8	29.8	64.0	-16.0	110.0	62.0

Daily Cost Total	Cum. Cost To Date	Operations at Report Time	Rat No	T (°C)	Wind	P (atb) (kPa)	P (cas) (kPa)	Rig Time (hrs)
21,460.00	692,521.25	Pulling tubing	18	-11	North 5km/h	0	0	16.00

Dur (hrs)	Comment	Sum Dur (hrs)
16.00	07:00 hours, Daily walk around lease inspection, held a safety and procedure meeting with all on site personal. read and record shut in well pressures. resume recording well pressures to 12:00 hours. Move in spot and rig in Opsco wireline to pull recorders and collar stop set @ 80 meters. Rig in circulating equipment and direct circulate 21.8 m³ of 3 % KCL water to kill the well. tear out circulating equipment and monitor well pressures. for 20 minutes, well dead. disassemble flow tree. install a landing joint / break down 11.5 X 7.5 tubing hanger spool. (hanger spool started to move up as we removed the bolts indicating that the tubing is pushing up on the hanger.) re- tighten down the spool and install a function and stump tested 7" class III hydraulic BOP system tested blind and pipe rams 1.4 mPa low and 21 mPa high for 10 minutes each tested the annular 1.4 mPa and 7 mPa low for ten minutes each tested the ring gasket 1.4 and 21 mPa for ten minutes each., place 10 mPa between the annular and the hanger, release the hanger screws and slowly bleed off the pressure. (Hanger / tubing jumped quickly 0.86 m up and gave a half turn counter clockwise) Hoist tubing 1 dan over string and tubing jumped can't hoisting. (Packer Draging), rotate pipe and reciprocate to ensure packer is free. Plenty of drag. spud the packer to work the string down. reciprocate and rotate (packer free). Land hanger and prep to strip off 7" BOP and rig in 11" BOP. Rig out the work floor, strip off 7" stack, hoist tubing / hanger / THF and strip off 7" spool, strip on 9-5/8 hanger and land the same. Install a function and stump tested Hydraulic class III BOP system, test pipe and blind rams 1.4 and 21 mPa for 10 minutes each, test annular 1.4 and 10 mPa for 10 minutes each, test ring gasket 1.4 and 21 mPa for 10 minutes each, all tests were good. Rig up the work floor and tarp in the BOP's prep for morning operations, secure the well and shut down for the day. 06:00 tubing and casing both on a slight vacume	16.00

Tubing Components			Casing Details			
Item Desc	Top (mKB)	Bot (mKB)	Surface, 604.00			
			Max OD (mm)	Min ID (mm)	String Drift Min (mm)	Bottom or Set Depth (mKB)
			339.7	320.4		504.00
			Production, 694.00			
			Max OD (mm)	Min ID (mm)	String Drift Min (mm)	Bottom or Set Depth (mKB)
			244.5	222.4		694.00

Para Anadarko Arrowhead C-02

Directions To Well

From Fort Nelson British Columbia. Travel North / West on the Alaska Highway to Highway 77 Turn and travel North towards Fort Laird. Travel to the NWT border, Travel an additional 71.5 km. Turn and travel East 28.5 km to a beaver camp, Turn and travel south 0.8 km to location.

14/01/2002 00:00

Daily Cost Summary

APUWV	Field Name	Area	Operator	KB Elev (m)	Gr Elev (m)	PSTD (mKb)
300C028040123000	Arrowhead	80" 40' 123" 00'	Paramont Resources	454.10	447.20	679.96

Daily Summary

Start of report period	End of report period	Daily Cost Total	Cum Cost To Date
13/01/2002 00:00	14/01/2002 00:00	21,460.00	682,521.25

Operations at Report Time

Pulling tubing

Rental Item Costs

Item	Ticket	Cost (\$)	Note
Supervision from Fire Creek		950	
Vacume truck from Formula		1,100	
Camp Rental and Catering from		3,150	
Beaver Enterprizes			
Medic from Iroc		1,000	
Slickline Services from Opsco		1,900	
Wellsite Shacks from Deranway		310	
Boller from Presicion		750	
Production Testing Equipment from		3,100	
Opsco			
BOP Rental from Weatherford		600	
Service Rig from Precision		8,600	18

PARAMOUNT RESOURCES LTD
C-02 NWT
Start Test Date: 2001/01/01

FieldNotes

Field Measurements

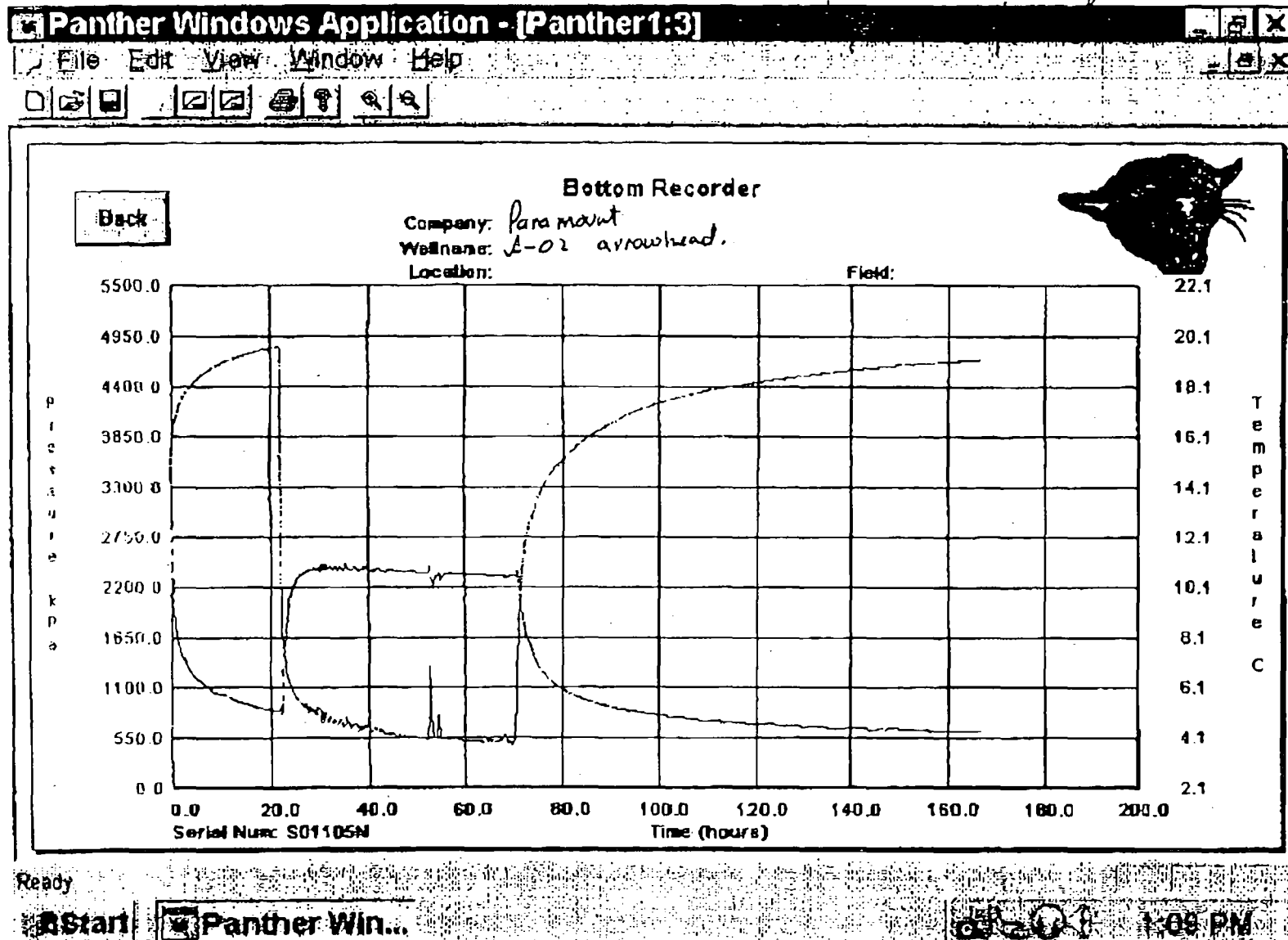
PARA BERKLEY ARROWHEAD C-02
Formation: CHINKEH

																			Calc Inc				
		Clock	Choke Tub	Tubin Casing	Static Diff	Metz	Gas	Cum.	Measure	Calc Inc	Oil	Cum.	Calc Inc	BSW Vol									
Date	Time	C Size	Tem	Pres	Pres	Pres	Pres	Tem	Orifice	Rate	Gas	Fld Vol	Fld Gain	BSW	Gain	Oil	BSW G	Water	Salinity	pH			
yyyy/mm/dd	hh:mm:ss	mm	°C	kPa(g)	kPa(g)	° AP	kPa(g)	kPa	°C	mm	10 ³ m ³	10 ³ m ³	m ³	m ³	%	m ³	m ³	m ³	ppm	.			
494	2002/01/13	07:30:00			4845	4845																	
495		08:00:00			4845	4845																	
496		08:30:00			4845	4840																	
497		09:00:00			4845	4845																	
498		09:30:00			4845	4845																	
499		10:00:00			4855	4850																	
500		10:30:00			4855	4850																	
501		11:00:00			4855	4855																	
502		11:30:00			4855	4855																	
503		12:00:00			4855	4855																	
504		12:01:00	Shut in master valve and rig up wireline to pull recorders.																				
505		13:58:00	Start pumping KCl water down csg. and up tbg.																				
506		14:25:00	Fluid to surface. Salinity = 30,000ppm. and pH=7																				
507		14:30:00	Fluid recovered through circulation = 6.256m ³ and returned to 490bbl.																				
508		17:00:00	Rig crew start to rig in bop's.																				
509		22:00:00	Rig crew finished rigging in tarp in well+heat for the night.																				
510	2002/01/14	00:00:00	Rig in casing flange.																				
511		00:00:00	Rig crew getting ready to pull tubing.																				
512		07:00:00	Tbg. and csg. both on vacuum.																				

2002/01/13 07:00:00 To 2002/01/14 07:00:00

Gas	0.000	Cum.	52.577 10 ³ m ³
Oil	0.000	Cum.	0.000 m ³
Water	0.000	Cum.	29.730 m ³

A-02 Recorder Graph.



Para **larko Arrowhead C-02**

Report # 17, 13/01/2002 00:00

Daily Completion and Workover Report

APDOWI	Field Name	Operator	KB Elev (m)	Gr Elev (m)	PBTD (mKB)	TH Elev (m)	KB-TH (m)	Latitude (DMS)	Longitude (DMS)
300C026040123000	Arrowhead	Paramont Resources	454.10	447.20	679.96	448.89	5.21		

AFE No	Objective	Start Date
01N220001	To complete Chinkeh formation for hydrocarbon production	27/12/2001

Perforations				Fluid Movement							
Shot Cons (shots/m)	Phasing (%)	Top (mKB)	Bot (mKB)	Zone	Fluid	To well (m)	From well (m)	In Tanks (m)	Cardio recover (m)	To tanks (m)	From tanks (m)
17.0	60	605.00	609.00	Chinkeh	Water	13.6	29.6	64.0	-16.0	110.0	62.0

Daily Cost Total	Cum. Cost To Date	Operations at Report Time	Rpt No	T (°C)	Wind	P _(sub) (kPa)	P _(cas) (kPa)	Rig Time (hrs)
45,790.00	671,061.25	Recording well pressures	17	-12	trace	4,645	4,840	8.00

Dur (hrs)	Comments	Sum Dur (hrs)
	Daily walk around lease inspection, held a safety and procedure meeting with all on site personal, read and record shut in well pressures. Prep to rig out the rig, rig out rig and slide matting forward, fill in around cellar as required, put matting back in place, re-spot the rig and rig back up, center over the hole and re-anchor the derrick, prep for morning operations. Baker lined up for Jan 13/01 Recorders will be pulled @ 12:00 sunday.	

Tubing Components

Item Desc	Top (mKB)	Bot (mKB)
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Casing Details**Surface, 504.00**

Max OD (mm)	Min ID (mm)	String Drift Min (mm)	Bottom or Set Depth (mKB)
339.7	320.4		504.00

Production, 694.00

Max OD (mm)	Min ID (mm)	String Drift Min (mm)	Bottom or Set Depth (mKB)
244.5	222.4		694.00

Para Anadarko Arrowhead C-02**Directions To Well**

From Fort Nelson British Columbia. Travel North / West on the Alaska Highway to Highway 77 Turn and travel North towards Fort Laird. Travel to the NWT border, Travel an additional 71.5 km. Turn and travel East 28.5 km to a beaver camp. Turn and travel south 0.8 km to location.

13/01/2002 00:00

Daily Cost Summary

AP/WVI	300C026040123000	Field Name	Arrowhead	Area	60' 40' 123' 00'	Operator	Paramount Resources	KB Elev (m)	Gr Elev (m)	PBTD (mKB)
								454.10	447.20	679.96

Daily Summary

Start of report period	12/01/2002 00:00	End of report period	13/01/2002 00:00	Daily Cost Total	45,790.00	Cum. Cost To Date	671,061.25
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Operations at Report Time

Recording well pressures

Rental Item Costs

Item	Cost (\$)	Cost (\$)	Note
Supervision from Fire Creek		850	
Vacume truck from Formula		1,100	
Camp Rental and Catering from Beaver Enterprises		3,150	
Medic from Iroc		1,000	
Slickline Services from Opsco		1,900	
Wellsite Shacks from Deranway		310	
Boiler from Precision		750	
Production Testing Equipment from Opsco		3,100	
BOP Rental from Weatherford		600	
Service Rig from Precision		5,610	8 hours
Camp Move from Formula Transport	58920	23,620	Move in camp to C-02
Propane from Neufeld Petroleum		3,700	camp and wellsite shacks

PARA BERKLEY ARROWHEAD C-02
Formation: CHINKEH

[illegible]

PARAMOUNT RESOURCES LTD
C-02 NWT
Start Test Date: 2001/01/01

FieldNotes

Field Measurements

PARA BERKLEY ARROWHEAD C-02
Formation: CHINKEH

														Calc Inc					
Data		Clock	Choke	Tub	Tubin	Casing	Static	Diff	Mete	Gas	Cum.	Measure	Calc	Inc	Oil	Cum.	Calc	Inc	BSW Vol
yyyy/mm/dd hh:mm:ss		mm	°C	kPa(g)	kPa(g)	* APkPa(g)	kPa	°C	mm	10 ³ m ³ /	10 ³ m ³	m ³	m ³	%	m ³	m ³	m ³	m ³	Water
																			Salinity ppm
451	2002/01/12	07:30:00			4835	4545													
452		08:00:00			4845	4555													
453		08:30:00			4845	4565													
454		09:00:00			4865	4560													
455		09:30:00			4885	4560													
456		09:31:00	Shut in well, and lay over rig derrick.																
457		10:00:00	Move rig and fit in around well cellar.																
458		14:00:00	Move rig back over well head and stand derrick.																
459		14:15:00	Open well to continue to record pressures.																
460		14:25:00			4883	4583													
461		15:00:00			4883	4578													
462		15:30:00			4881	4575													
463		16:00:00			4883	4580													
464		16:30:00			4886	4590													
465		17:00:00			4800	4590													
466		17:30:00			4596	4590													
467		18:00:00			4596	4590													
468		18:30:00			4596	4593													
469		19:00:00			4600	4590													
470		19:30:00			4600	4600													
471		20:00:00			4600	4600													
472		20:30:00			4600	4610													
473		21:00:00			4600	4610													
474		21:30:00			4600	4610													
475		22:00:00			4600	4610													
476		22:30:00			4600	4610													
477		23:00:00			4610	4610													
478		23:30:00			4610	4610													
479	2002/01/13	00:00:00			4620	4620													

2002/01/12 07:00:00 To 2002/01/13 07:00:00

Gas 0.000 Cum. 52.577 10³m³
Oil 0.000 Cum. 0.000 m³
Water 0.000 Cum. 29.730 m³

Para Anadarko Arrowhead C-02

Report # 16, 12/01/2002 00:00

Daily Completion and Workover Report

API/UVI	Field Name	Operator	KB Elev (m)	Gr Elev (m)	PBTD (mKB)	TH Elev (m)	KB-TH (m)	Latitude (DMS)	Longitude (DMS)
300C026040123000	Arrowhead	Paramount Resources	454.10	447.20	679.96	448.89	5.21		

AFE No.	Objective	Start Date
01N220001	To complete Chinkeh formation for hydrocarbon production	27/12/2001

Perforations

Fluid Movement

Shot Date (mm/dd/yy)	Phase (°)	Top (mKB)	Bottom (mKB)	Zone	Fluid	To well (m)	From well (m)	In Tanks (m)	Core recover (m)	To base (m)	From well (m)
17.0	80	605.00	609.00	Chinkeh	Water	13.6	29.6	64.0	-16.0	110.0	62.0

Daily Cost Total	Cum. Cost To Date	Operations at Report Time	Rpt No	T (°C)	Wind	P(sub) (kPa)	P(ass) (kPa)	Rig Time (hrs)
18,470.00	625,271.25	Recording well pressures	16	-7		4,535	4,545	8.00

Dur (hrs)	Comment	Sum Dur (hrs)
	Travel from Ft. Nelson to location. Walk around lease inspection, found the ground under the rig matting around the cellar melted away leaving a large open spot under the matting, prep to rig out rig and fill in as required in the morning.	

Tubing Components

Casing Details

Item Desc	Top (mKB)	Bottom (mKB)
Surface, 504.00		
Max OD (mm)	Min ID (mm)	String Drill Min (mm)
339.7	320.4	504.00
Production, 694.00		
Max OD (mm)	Min ID (mm)	String Drill Min (mm)
244.5	222.4	694.00

Para Anadarko Arrowhead C-02

Directions To Well

From Fort Nelson British Columbia. Travel North / West on the Alaska Highway to Highway 77 Turn and travel North towards Fort Laird. Travel to the NWT border, Travel an additional 71.5 km. Turn and travel East 28.5 km to a beaver camp, Turn and travel south 0.8 km to location.

12/01/2002 00:00

Daily Cost Summary

API/UMI	Field Name	Area	Operator	KB Elev (m)	Gr Elev (m)	PB TO (mKB)
300C026040123000	Arrowhead	80" 40' 123" 00'	Paramont Resources	454.10	447.20	679.96

Daily Summary

Start of report period	End of report period	Daily Cost Total	Cum. Cost To Date
11/01/2002 00:00	12/01/2002 00:00	18,470.00	625,271.25

Operations at Report Time

Recording well pressures

Rental Item Costs

Item	Ticket	Cost (\$)	Note
Supervision from Fire Creek		950	
Vacume truck from Formula		1,100	
Camp Rental and Catering from Beaver		3,150	
Enterprizes			
Medic from Iroc		1,000	
Slickline Services from Opsco		1,900	
Wellbore Shacks from Deranway		310	
Boiler from Precision		750	
Production Testing Equipment from Opsco		3,100	
BOP Rental from Weatherford		600	
Service Rig from Precision		5,610	8 hours

PARAMOUNT RESOURCES LTD
C-02 NWT
Start Test Date: 2001/01/01

FieldNotes

Field Measurements

PARA BERKLEY ARROWHEAD C-02
Formation: CHINKEH

																			Calc				
																			Inc				
		Clock	Choke	Tub	Tubin	Casing	Static	Diff	Mete	Gas	Cum.	Measure	Calc	Inc	Oil	Cum.	Calc	Inc	BSW Vol				
Date	Time	C	Size	Tem	Pres	Pres	#	Pres	Pres	Tem	Orifice	Rate	Gas	Fld Vol	Fld Gain	BSW	Gain	Oil	BSW G	Water	Salinity	pH	
yyyy/mm/d	hh:mm:ss	mm	°C	kPa(g)	kPa(g)	*APkPa(g)	kPa	°C	mm	10 ³ m ³ /	10 ³ m ³	m ³	m ³	%	m ³	m ³	m ³	m ³	m ³	ppm			
432	2002/01/11	22:00:00			4485	4490																	
433		22:30:00			4490	4490																	
434		23:00:00			4494	4495																	
435		23:30:00			4495	4495																	
436	2002/01/12	00:00:00			4495	4495																	
437		00:30:00			4500	4500																	
438		01:00:00			4500	4500																	
439		01:30:00			4510	4510																	
440		02:00:00			4510	4510																	
441		02:30:00			4510	4515																	
442		03:00:00			4510	4510																	
443		03:30:00			4510	4510																	
444		04:00:00			4510	4510																	
445		04:30:00			4530	4530																	
446		05:00:00			4520	4538																	
447		05:30:00			4530	4540																	
448		06:00:00			4530	4540																	
449		06:30:00			4535	4545																	
450		07:00:00			4535	4545																	

2002/01/11 07:00:00 To 2002/01/12 07:00:00

Gas 0.000 Cum. 52.577 10³m³
Oil 0.000 Cum. 0.000 m³
Water 0.000 Cum. 29.730 m³

PARAMOUNT RESOURCES LTD
C-02 NWT
Start Test Date: 2001/01/01

FieldNotes

Field Measurements

PARA BERKLEY ARROWHEAD C-02
Formation: CHINKEH

														Calc										
														Inc										
Clock		Choke	Tub	TubIn	Casing	Static		Diff	Mete	Gas	Cum.	Measure	Calc	Inc	Oil	Cum.	Calc	Inc	BSW	Vol				
Date	Time	C	Size	Term	Pres	Pres	#	Pres	Pres	Term	Orifice	Rate	Gas	Fld Vol	Fld Gain	BSW	Gain	Oil	BSW	G	Water	Salinity	pH	
yyyy/mm/dd	hh:mm:ss	mm	°C	kPa(g)	kPa(g)	°AP	kPa(g)	kPa	°C	mm	10 ⁻³ m ³ /	10 ⁻³ m ³	m ³	m ³	%	m ³	m ³	m ³	m ³	m ³	ppm			
403	2002/01/11	07:30:00			4370	4370																		
404		08:00:00			4375	4375																		
405		08:30:00			4380	4380																		
406		09:00:00			4385	4385																		
407		09:30:00			4390	4395																		
408		10:00:00			4395	4400																		
409		10:30:00			4400	4400																		
410		11:00:00			4405	4400																		
411		11:30:00			4405	4400																		
412		12:00:00			4410	4405																		
413		12:30:00			4410	4415																		
414		13:00:00			4415	4415																		
415		13:30:00			4420	4420																		
416		14:00:00			4420	4430																		
417		14:30:00			4425	4425																		
418		15:00:00			4430	4425																		
419		15:30:00			4440	4435																		
420		16:00:00			4445	4445																		
421		16:30:00			4455	4445																		
422		17:00:00			4455	4445																		
423		17:30:00			4455	4455																		
424		18:00:00			4455	4455																		
425		18:30:00			4455	4455																		
426		19:00:00			4480	4485																		
427		19:30:00			4470	4480																		
428		20:00:00			4470	4470																		
429		20:30:00			4475	4485																		
430		21:00:00			4475	4490																		
431		21:30:00			4475	4485																		

2002/01/11 07:00:00 To 2002/01/12 07:00:00

Gas 0.000 Cum. 52.577 10³m³
Oil 0.000 Cum. 0.000 m³
Water 0.000 Cum. 28.730 m³

Para Anadarko Arrowhead C-02

Report # 15, 11/01/2002 00:00

Daily Completion and Workover Report

APN/UVN	Field Name	Operator	KB Elev (m)	Gr Elev (m)	PBTD (mKB)	TR Elev (m)	KB-TH (m)	Latitude (DMS)	Longitude (DMS)
3000026040123000	Arrowhead	Paramount Resources	454.10	447.20	679.96	448.89	5.21		

AFE No.	Objective	Start Date
01N220001	To complete Chinkeh formation for hydrocarbon production	27/12/2001

Perforations					Fluid Movement						
Shot Date (mm/dd/yy)	Phasing	Top (mKB)	Bot (mKB)	Zone	Fluid	To well (m)	From well (m)	In Tubs (m)	Core to hanger (m)	TD Hanger (m)	TD Total (m)
17.0	60	605.00	609.00	Chinkeh	Water	13.8	29.6	64.0	-16.0	110.0	62.0

Daily Cost Total	Cum. Cost To Date	Operations at Report Time	Rpt No	T (°C)	Wind	P(tub) (kPa)	P(cas) (kPa)	Rig Time (hrs)
18,470.00	606,801.25	Recording well pressures	15	-5		4,365	4,365	8.00

Dur (hrs)	Comment	Sum Dur (hrs)
	Daily walk around lease inspection, held a safety and procedure meeting with all on site personal, read and record shut in well pressures, SITP 4365 kPa, SICP 4365 kPa. Travel from location to Ft. St. John and drop off mud / water / gas samples @ Core lab depot. Drop off rental truck / claim personal truck. Picked up returned 9-5/8 tubing hanger from Velco Grey and travel back to Fort Nelson. Stay over night and travel back to location in the morning. Instructed testers to fax there notes in the morning.	

Tubing Components			Casing Details			
Item Desc	Top (mKB)	Bot (mKB)				
			Surface, 504.00			
	Max OD (mm)	Min ID (mm)	String Drift Min (mm)	Bottom or Set Depth (mKB)		
	339.7	320.4		504.00		
			Production, 694.00			
	Max OD (mm)	Min ID (mm)	String Drift Min (mm)	Bottom or Set Depth (mKB)		
	244.5	222.4		694.00		
Para Anadarko Arrowhead C-02						
Directions To Well						
From Fort Nelson British Columbia. Travel North / West on the Alaska Highway to Highway 77 Turn and travel North towards Fort Laird. Travel to the NWT border, Travel an additional 71.5 km. Turn and travel East 28.5 km to a beaver camp, Turn and travel south 0.8 km to location.						

11/01/2002 00:00

Daily Cost Summary

API/WV	Well Name	Area	Operator	KB Elev (m)	Gr Elev (m)	PBTD (mKB)
300C026040123000	Arrowhead	60° 40' 123° 00'	Paramont Resources	454.10	447.20	679.96

Daily Summary

Start of report period	End of report period	Daily Cost Total	Cum. Cost To Date
10/01/2002 00:00	11/01/2002 00:00	18,470.00	606,801.25

Operations at Report Time

Recording well pressures

Rental Item Costs

Item	Ticket	Cost (\$)	Note
Suparvision from Fire Creek		950	
Vacume truck from Formula		1,100	
Camp Rental and Catering from Beaver		3,150	
Enterprizes			
Medic from Iroc		1,000	
Sickline Services from Opsco		1,900	
Wellsite Shacks from Derahway		310	
Boller from Precision		750	
Production Testing Equipment from Opsco		3,100	
BOP Rental from Weatherford		600	
Service Rig from Precision		5,810	6 hours

009/010

1857C

PARAMOUNT RES. FLR 39

01/11/02 09:43 FAX 403 266 6032

PARAMOUNT RESOURCES LTD
C-02 NWT
Start Test Date: 2001/01/01

FieldNotes

Field Measurements

PARA BERKLEY ARROWHEAD C-02
Formation: CHINKEH

											Calc Inc														
Clock		Choke	Tub	Tubln	Casing	Static	Diff	Mets	Gas	Cum.	Measure	Calc	Inc	Oil	Cum.	Calc	Inc	BSW	Vol						
Date	Time	C	Size	Tem	Pres	Pres	g	Pres	Pres	Tem	Drillce	Rate	Gas	Fid	Vol	Fid	Gain	BSW	Gain	Oil	BSW	G	Water	Salinity	pH
yyyy/mm/dd	hh:mm:ss	mm		°C	kPa(g)	kPa(g)	°AP	kPa(g)	kPa	°C	mm	10 ³ m ³ /	10 ³ m ³	m ³	m ³	%	m ³	m ³	m ³	m ³	m ³	m ³	m ³	ppm	
355	2002/01/10	07:30:00			3975	3975																			
356		08:00:00			3985	3985																			
357		08:30:00			4005	4005																			
358		09:00:00			4015	4005																			
359		09:30:00			4025	4015																			
360		10:00:00			4035	4030																			
361		10:30:00			4045	4045																			
362		11:00:00			4060	4065																			
363		11:30:00			4075	4070																			
364		12:00:00			4090	4090																			
365		12:30:00			4100	4105																			
366		13:00:00			4115	4185																			
367		13:30:00			4120	4110																			
368		14:00:00			4125	4120																			
369		14:30:00			4130	4125																			
370		15:00:00			4135	4135																			
371		15:30:00			4155	4155																			
372		16:00:00			4180	4165																			
373		16:30:00			4170	4165																			
374		17:00:00			4185	4175																			
375		17:30:00			4190	4185																			
376		18:00:00			4200	4200																			
377		18:30:00			4215	4215																			
378		19:00:00			4220	4220																			
379		19:30:00			4230	4215																			
380		20:00:00			4225	4225																			
381		20:30:00			4230	4230																			
382		21:00:00			4240	4240																			
383		21:30:00			4250	4250																			

2002/01/10 07:00:00 To 2002/01/11 07:00:00

Gas 0.000 Cum. 52.577 10³m³
Oil 0.000 Cum. 0.000 m³
Water 0.000 Cum. 29.730 m³

Fast

FieldNotes32 Ver 1.253
C:\FAST\FieldNotes\Example\C-02 NWT.FLD 11-Jan-02

FieldNotes

384	2002/01/10	22:00:00	4280	4280
385		22:30:00	4285	4285
386		23:00:00	4270	4270
387		23:30:00	4280	4280
388	2002/01/11	00:00:00	4290	4290
389		00:30:00	4295	4295
390		01:00:00	4300	4300
391		01:30:00	4310	4310
392		02:00:00	4310	4310
393		02:30:00	4310	4315
394		03:00:00	4320	4320
395		03:30:00	4325	4325
396		04:00:00	4330	4330
397		04:30:00	4335	4335
398		05:00:00	4340	4345
399		05:30:00	4350	4350
400		06:00:00	4355	4355
401		06:30:00	4360	4360
402		07:00:00	4365	4365

Gas	0.000	Cum.	52.577 10 ³ m ³
Oil	0.000	Cum.	0.000 m ³
Water	0.000	Cum.	29.730 m ³

Para Anadarko Arrowhead C-02

Report # 14, 10/01/2002 00:00

Daily Completion and Workover Report

AP/WV	Field Name	Operator	KB Elev (m)	Gr Elev (m)	ABVD (mKB)	TH Elev (m)	KB-TH (m)	Latitude (DMS)	Longitude (DMS)
300C028040123000	Arrowhead	Paramount Resources	454.10	447.20	679.96	448.89	5.21		
AFE No.	01N220001	Objective	To complete Chinkeh formation for hydrocarbon production					Start Date	27/12/2001

Perforations

Fluid Movement

Shot Dens (shots/m)	Phasing (°)	Top (mKB)	Btm (mKB)	Zone	Fluid	To well (m)	From well (m)	In Tank (m)	Lost to recover (m)	To losses (m)	From losses (m)
17.0	80	605.00	609.00	Chinkeh	Water	13.6	29.6	64.0	-16.0	110.0	82.0

Daily Cost Total	Cum. Cost To Date	Operations at Report Time	Rpt No	T (°C)	Wind	P(sub) (kPa)	P(gas) (kPa)	Rig Time (hrs)
18,460.00	588,331.25	recording well pressures	14	-2		3,965	3,965	8.00

Day (hrs)	Comment	Sum Dur (hrs)
	Daily walk around lease inspection, held a safety and procedure meeting with all on site personal, read and record shut in well pressures, resume with flow test. well making $\pm 14 \text{ } 10^3 \text{ m}^3/\text{day}$. Flow well ontill noon and shut in to read and record build ups. All collected samples will be taken to ft. St. John in morning. Recieved 600 meters of pipe and 50 m ³ of 3% KCL water, resume with build ups.	

Tubing Components

Item Desc	Top (mKB)	Btm (mKB)
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Casing Details

Surface, 504.00

Max OD (mm)	Min ID (mm)	String Drift Min (mm)	Bottom or Set Depth (mKB)
339.7	320.4		504.00

Production, 694.00

Max OD (mm)	Min ID (mm)	String Drift Min (mm)	Bottom or Set Depth (mKB)
244.5	222.4		694.00

Para Anadarko Arrowhead C-02

Directions To Well

From Fort Nelson British Columbia. Travel North / West on the Alaska Highway to Highway 77 Turn and travel North towards Fort Laird. Travel to the NWT border, Travel an additional 71.5 km. Turn and travel East 28.5 km to a beaver camp. Turn and travel south 0.8 km to location.

1857C

Para Anadarko Arrowhead C-02

Report # 13, 09/01/2002 00:00

Daily Completion and Workover Report

Well	Field Name	Operator	KB Elev (m)	Gr Elev (m)	PBTD (mKB)	TR Elev (m)	KB-TH (m)	Latitude (DMS)	Longitude (DMS)		
2026040123000	Arrowhead	Paramount Resources	454.10	447.20	679.96	448.89	5.21				
APENo.	Objective							Start Date			
01N220001	To complete Chinkeh formation for hydrocarbon production							27/12/2001			
Perforations					Fluid Movement						
Shot Dens (shots/m)	Phasing (°)	Top (mKB)	Strm (mKB)	Zone	Fluid	To well (m³)	From well (m³)	In TBMS (m³)	Lost to recover (m³)	To waste (m³)	From waste (m³)
17.0	60	605.00	609.00	Chinkeh	Water	13.6	29.6	14.0	-16.0	60.0	82.0
Daily Cost Total		Cum. Cost To Date		Operations as Report Time		Rpt No	T (°C)	Wind	P(tub) (kPa)	P(cas) (kPa)	Rig Time (hrs)
18,470.00		569,871.25		Flowing the well		13	-2		440	775	8.00
Out (hrs)	Comment										Sum Dur (hrs)
	Daily walk around lease inspection, held a safety and procedure meeting with all on site personal, read and record well pressures. Resume with flow test. Rig in fluid shot and record 4-30 second shots off of the casing, first 2 shots recorded 196 joints and the second 2 shots recorded 312 joints. (there is only 60 joints of pipe in the well). We shut in the tubing and shut down the rig generator to reduce noise interference during recording. there was a lot of extra noise on the data possibly due to the well building pressure during shut in. or it was picking up the buckled tubing. we contacted the owner and he said that is is very possible to pick up buckled pipe and that if the well was shut in and not flowing we would get better results This device is very sensitive to extra noise. Resume with flow test.										

Tubing Components

Item Desc	Top (mKB)	Strm (mKB)
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Casing Details

Surface, 504.00

Max OD (mm)	Min ID (mm)	String Drift Min (mm)	Bottom or Set Depth (mKB)
339.7	320.4		504.00

Production, 694.00

Max OD (mm)	Min ID (mm)	String Drift Min (mm)	Bottom or Set Depth (mKB)
244.5	222.4		694.00

Para Anadarko Arrowhead C-02

Directions To Well

From Fort Nelson British Columbia. Travel North / West on the Alaska Highway to Highway 77 Turn and travel North towards Fort Laird. Travel to the NWT border, Travel an additional 71.5 km. Turn and travel East 28.5 km to a beaver camp. Turn and travel south 0.8 km to location.

09/01/2002 00:00

Daily Cost Summary

Well 300C026040123000	Field Name Arrowhead	Area 60' 40' 123" 00'	Operator Paramount Resources	KB Elev (m) 454.10	Gr Elev (m) 447.20	PBTD (mKB) 879.96
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Daily Summary

Start of report period 08/01/2002 00:00	End of report period 09/01/2002 00:00	Daily Cost Total 18,470.00	Cum. Cost To Date 569,871.25
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Operations at Report Time

Flowing the well

Rental Item Costs

Item	Ticket	Cost (\$)	Note
Supervision from Fire Creek		950	
Vacume truck from Formula		1,100	
Camp Rental and Catering from Beaver		3,150	
Enterprizes			
Medic from Iroc		1,000	
Slickline Services from Opsco		1,900	
Wellsite Shacks from Deranway		310	
Boiler from Presticon		750	
Production Testing Equipment from Opsco		3,100	
Service Rig from Precision		5,610	8 hours
BOP Rental from Weatherford		600	

PARAMOUNT RESOURCES LTD
C-02 NWT
Start Test Date: 2001/01/01

FieldNotes

Field Measurements

PARA BERKLEY ARROWHEAD C-02
Formation: CHINKEH

															Calc Inc						
		Clock	Choke	Tube	Tubing	Casing	Static	DHT	Meter	Gas	Cum.	Measure	Calc Inc	OH	Cum.	Calc Inc	BSW Vol				
Date	Time	C Size	Tem	Pres	Pres	#	Pres	Pres	Tem	Orifice	Rate	Gas	Fld Vol	Fld Gain	BSW	Gain	OH	BSW G	Water	Salinity	pH
yyyy/mm/dd	hh:mm:ss	mm	°C	kPa(g)	kPa(g)	"	APkPa(g)	kPa	°C	mm	10 ⁻³ m ³ /	10 ⁻³ m ³	m ³	m ³	%	m ³	m ³	m ³	m ³	ppm	
248	2002/01/08	20:00:00	18.05	8	810	800	50	7.71	25	50.80	17.933	43.283									
249		20:01:00	Shut in at manifold to use echo meter.																		
250		20:05:00	Open well to flow.																		
251		20:07:00		18	810	1200	50	19.92	22		32.183	43.388									
252		20:30:00		7	590	850	35	9.99	24		18.390	43.797									
253		21:00:00	19.05	7	590	850	20	8.23	28	50.80	14.868	44.163									
254		21:30:00		8	490	850	25	6.23	25		14.842	44.481									
255		22:00:00	18.05	8	490	850	30	6.98	26	50.80	14.611	44.785									
256		22:30:00		7	490	850	30	6.98	25		14.636	45.070									
257		23:00:00	18.05	8	470	800	30	5.98	26	50.80	14.611	45.375	1.547	0.055	100.0	0.000	0.000	0.055	29.730		
258		23:30:00		8	490	800	30	5.73	25		14.298	45.876									
259	2002/01/09	00:00:00	18.05	8	490	800	40	5.73	25	50.80	14.888	45.990									
260		00:30:00		8	475	800	30	5.98	26		14.811	46.287									
261		01:00:00	18.05	8	470	800	48	5.98	25	50.80	15.211	46.598									
262		01:30:00		8	470	800	30	5.73	26		14.298	46.908									
263		02:00:00	18.05	8	460	800	30	5.23	25	50.80	13.873	47.197									
264		02:30:00		8	490	800	35	5.23	26		13.823	47.484									
265		03:00:00	18.05	8	490	800	36	5.23	26	50.80	13.878	47.772									
266		03:30:00		8	490	800	40	5.23	25		14.189	48.062									
267		04:00:00	18.05	8	475	800	29	7.22	25	50.80	16.451	48.375									
268		04:00:00	Adjust back pressure.																		
269		04:30:00		8	455	800	20	7.47	28		15.996	48.895									
270		05:00:00	19.05	8	455	800	39	6.97	28	50.80	15.741	49.022									
271		05:01:00	Take 2 high pressure gas samples. #s VU0003537+VU0006199 For core lab.																		
272		05:30:00		8	440	800	30	6.22	29		14.832	49.341									
273		06:00:00	18.05	8	455	800	45	4.98	28	50.80	14.850	49.842									
274		06:30:00		8	450	775	50	4.98	29		14.278	49.937									
275		07:00:00	18.05	8	470	775	50	4.98	29	50.80	14.278	50.234	1.547	0.000		0.000	0.000	0.000	29.730		

2002/01/08 07:00:00 To 2002/01/09 07:00:00

Gas 17.771 Cum. 50.234 10³m³
Oil 0.000 Cum. 0.000 m³
V 0.110 Cum. 29.730 m³

PARA BERKLEY ARROWHEAD C-02
Formation: CHINKEH

[illegible]

Fast Ω^3 Ver 1.753
C:\Program Files\Motor\Example\AC-02.MWT.FLD 09-Jan-02

1857C

Para Anadarko Arrowhead C-02

Report # 12, 08/01/2002 00:00

Daily Completion and Workover Report

API/UVN 300C028040123000	Field Name Arrowhead	Operator Paramount Resources	KB Elev (m) 454.10	Gr Elev (m) 447.20	PBTD (mKB) 879.96	TH Elev (m) 448.89	KB-TH (m) 5.21	Latitude (DMS)	Longitude (DMS)
AFE No. 01N220001	Objective To complete Chinkeh formation for hydrocarbon production							Start Date 27/12/2001	

Perforations

Fluid Movement

Shot Depth (shots/m)	Drilling (m)	Top (mKB)	Run (mKB)	Zone	Fluid	To well (m)	From well (m)	In Tanks (m)	SBTD recover (m)	Islands (m)	From Tanks (m)
17.0	60	605.00	609.00	Chinkeh	Water	13.6	29.6	14.0	-16.0	60.0	62.0

Daily Cost Total 18,045.95	Cum. Cost To Date 547,801.25	Operations at Report Time flowing the well	Rpt No 12	T (°C)	Wind	P(hub) (kPa)	P(cas) (kPa)	Rig Time (hrs)
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Dur (hrs)	Comment	Sum Dur (hrs)
0.50	Daily walk around lease inspection, held a safety and procedure meeting with all on site personal. read and record shut in well pressures.	0.50
	Continue to record shut in well pressures. Open well on a single point test (3/4" choke) and flow as required. Opsco supplied a fluid level recorder but it is missing the nitrogen required to detonate, (wait on nitrogen). resume with test.	0.50

Tubing Components

Item Desc	Top (mKB)	Bot (mKB)

Casing Details

Surface, 504.00

Max OD (mm) 339.7	Min ID (mm) 320.4	Casing Drift Min (mm)	Bottom or Set Depth (mKB) 504.00
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Production, 694.00

Max OD (mm) 244.5	Min ID (mm) 222.4	Casing Drift Min (mm)	Bottom or Set Depth (mKB) 694.00
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Para Anadarko Arrowhead C-02

Directions To Well

From Fort Nelson British Columbia. Travel North / West on the Alaska Highway to Highway 77 Turn and travel North towards Fort Laird. Travel to the NWT border, Travel an additional 71.5 km. Turn and travel East 28.5 km to a beaver camp, Turn and travel south 0.8 km to location.

08/01/2002 00:00

Daily Cost Summary

APUWV	Field Name	Area	Operator	KB Elev (m)	Gr Elev (m)	PBTD (mKB)
300C028040123000	Arrowhead	60" 40' 123" 00'	Paramont Resources	454.10	447.20	579.98

Daily Summary

Start of report period	End of report period	Daily Cost Total	Cum. Cost To Date
07/01/2002 00:00	08/01/2002 00:00	18,045.95	547,801.25

Operational at Report Time

flowing the well

Costs

Description	Vendor	Code	Sub-code 1	PO	Ticket	Cost (\$)	Note
Hot shot	Quicksilver				0871	626	fluid level recorded

Rental Item Costs

Item	Ticket	Cost (\$)	Note
Supervision from Fire Creek		950	
Vacume truck from Formula		1,100	
Camp Rental and Catering from Beaver Enterprises		3,150	
Medic from Inoc		1,000	
Slickline Services from Opsco		1,900	
Wellsite Shacka from Deranway		310	
Boiler from Precision		750	
Production Testing Equipment from Opsco		3,100	
Service Rig from Precision		5,180	8 hours

PARAMOUNT RESOURCES LTD.

C-02 .NWT.

Start Test Date: 2002/01/01

FieldNotes

PARA BERKLEY ARROWHEAD C-02

Formation: CHINKEH

Field Measurements

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2002/01/07 07:00:00 To 2002/01/08 07:00:00

Gas 19.325 Cum. 32.473 10³m³
 Oil 0.000 Cum. 0.000 m³
 Water 1.437 Cum. 29.620 m³

PARAMOUNT RESOURCES LTD.
C-02 .NWT.
Start Test Date: 2002/01/01

FieldNotes

Field Measurements

PARA BERKLEY ARROWHEAD C-02
Formation: CHINKEH

Date	Time	C Size	Tem	Pres	Pres #	Pres	Pres	Temp	Office	Rate	Gas	Fid Vol	Fid Gain	BSW	Gain	Oil	Cum. Oil	Calc Inc BSW Vol	Water	Salinity	pH
yyyy/mm/dd	hh:mm:ss	mm	°C	kPa(g)	kPa(g)	*APkPa(g)	kPa	°C	mm	10 ³ m ³ /	10 ³ m ³	m ³	m ³	%	m ³	m ³	m ³	m ³	ppm		
166	2002/01/07	07:30:00		4765	4750																
167		08:00:00		4780	4780																
168		08:30:00		4780	4780																
169		09:00:00		4785	4800																
170		09:30:00		4800	4850																
171		10:00:00		4820	4850																
172		10:30:00		4815	4850																
173		11:00:00		4820	4850																
174		11:30:00		4800	4850																
175		11:31:00	Open well to flow on 18.05mm (48/64) bean choke as per instructions.																		
176		11:35:00		3330	3850																
177		11:40:00		2840	3700																
178		11:45:00		2230	2780																
179		11:45:00	Meter in service with 57.15mm. orifice.																		
180		11:45:00					0	0.00	0	57.15	0.000	13.147									
181		12:00:00	18.05	8	1875	2225	140	28.84	28		58.320	13.724									
182		12:15:00		8	1388	2900	115	23.88	22		49.410	14.289									
183		12:30:00		8	1250	1800	105	20.87	28		44.968	14.761									
184		13:00:00	18.05	8	1120	1800	90	18.93	28	57.15	39.063	15.896									
185		13:30:00		8	1040	1500	80	14.94	27		36.583	16.414									
186		14:00:00	18.05	9	985	1450	75	13.70	27	57.15	33.584	17.124									
187		14:30:00		9	910	1350	65	11.95	28		30.311	17.708									
188		15:00:00	18.05	9	890	1300	63	11.95	28	57.15	30.311	18.431									
189		15:30:00		10	880	1250	60	10.98	29		28.900	19.043									
190		16:00:00	18.05	8	800	1200	60	10.44	29	57.15	27.829	19.830									
191		16:01:00	Mist of fluid, not enough to measure in vessel.																		
192		16:30:00		10	855	1200	65	10.44	30		28.224	20.214									
193		17:00:00	18.05	10	905	1200	60	8.98	32	57.15	26.591	20.775									
194		17:30:00		10	770	1180	55	8.72	33		24.791	21.300									

2002/01/07 07:00:00 To 2002/01/08 07:00:00

Gas	19.326	Cum.	32.473 10 ³ m ³
Oil	0.000	Cum.	0.000 m ³
Water	1.437	Cum.	29.620 m ³