

Prepared for:

Willy Nilly

abc Oil & Gas Co. Ltd.
1234, 567–8th Avenue sw
Calgary, Alberta, T2T 2T2

abc Bumbleberry
100/01–02–003–04W4/0
Sunflower
Single Shot BHP
November 16, 2004

Wednesday, December 08, 2004 17:51:00

Data Inputs for a Static Well

Specific Gravities

Oil API 0.83 Sp.Gr.H2O
 Water SG 1.05 Sp.Gr.H2O
 Gas SG 0.73 (User Entered)

Temperatures

Surface Temperature 3 deg C
 Bottomhole Temperature 32 deg C

Tubulars

Tubing OD 73.025 mm
 Casing OD 139.7 mm

Pressure Change

Casing Pressure 3087.0 kPa (a)
 Pressure Change 1 kPa
 Time Change 1 min

Well Composition

Pump Intake Depth (MD) 1204.40 m
 Datum Depth 1204.40 m
 Liquid Depth 1026.90 m (User Entered)

Acoustic Velocity

Acoustic Velocity 353.32 m/s
 Calculation Method: Gas Gravity
 CO2 0 H2S 0
 N2 0

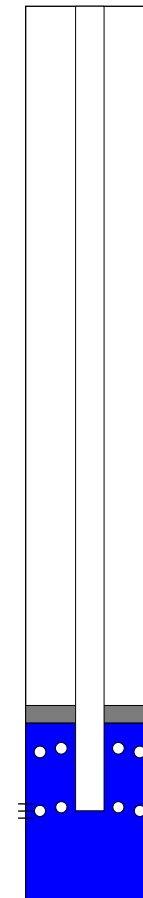
BHP Results

Measured Liquid Column Analysis

Oil Column Height 29.58 m
 Water Column Height 147.92 m

Pressure Analysis

Gas/Liquid Interface Pressure 3408.1 kPa (a)



Static BHP 5151.0 kPa (a)
SBHP Method - * -

Comments

Gradients: Gas = 0.3127 kPa/m, oil = 8.9148 kPa/m assuming water = 10 kPa/m.



AEUB.pas



From: EUB-WellTestCaptureProductionSystem@eub.gov.ab.ca
Sent: December 2, 2004 10:40 AM
To: ken@welltestspecialists.com
Subject: EUB WTC PRODUCTION Level 2 Success - Tracking Id: 9876543
(9876543_100.01-02-003-04W4.0 GRD 2004-11-16.ZIP)

THIS E-MAIL MESSAGE IS FROM THE WTC PRODUCTION SYSTEM Your well test package(s) have been successfully received by the WTC system.

**Package: 9876543_100.01-02-003-04W4.0 GRD 2004-11-16.ZIP [Tracking Id: 9876543]
- UWI: 100/01-02-003-04W4/0

*PAS File: **9876543_100.01-02-003-04W4.0 GRD 2004-11-16.PAS**
* Tested Date: 16 Nov 2004
* Test Purpose: Annual
* TVD Interval: 1202.00000 - 1216.00000
- Pas file validation successful
- **Package was recorded successfully in the Well Test Capture system.**

abc Oil & Gas Co. Ltd.
 100/01-02-003-04W4/00
 Start Test Date: 2004/11/16
 Final Test Date: 2004/11/16

CANADIAN SUB-SURFACE
Single-Shot AWS

abc Bumbleberry
 Formation: Sunflower
 Pool: 1202.0–1216.0 mKB
 Job Number: AWS

	AWS1	AWS1	AWS1	AWS1	AWS1	AWS1	AWS1	AWS1	AWS1	AWS1
	AWS1	AWS1	AWS1	Casing	Csg	Liquid	Gas	Oil	Water	Calculated
	Date	Clk Time	Time	Pres.	Temp.	Level	Gradient	Gradient	Gradient	Pres.@ MPP
	yyyy/mm/dd	hh:mm:ss	hr	kPa(a)	°C	m	kPa/m	kPa/m	kPa/m	kPa
1	2004/11/16	20:30:00	0.0000	3087.00	10.00	1026.90	0.313	9.915	10.000	5151.00

AWS1 Serial Number: Start Date: 2004/11/16 20:30:00 Run Depth:
 Print Filter: Off

Well Summary - Geo Webworks Inc.

Well Name: abc Bumbleberry	Location: 00/01-02-003-04W4/0
Operator: abc Oil & Gas Co. Ltd.	Licensee: abc Oil & Gas CO. Ltd.
Field: Bumbleberry	License No: 0196550 [1997/01/29]
	Cur Status: PUMPING CRUDE OIL [2000/04/28]

FORMATION TOPS			Location			
Form	Top (m)	Elev (m)		Latitude	Longitude	Coord
2WS	821.0	287.6	Bottom:	49.39457	110.52435	N165.4 W98.0
BFSC	917.0	191.6	Surface:	49.35357	110.53235	N178.4 W98.0
BI	981.0	127.6	Elevation			
MANN	1115.0	-6.4	KB:	1108.6 m / 3637.1 ft	Ground:	1104.0 m / 3622.0 ft
BANT	1194.0	-85.4	Class			
SUNB	1198.5	-89.9	DEV - DEVELOPMENT			
SWFT	1207.0	-98.4	Dates			
RIER	1223.0	-114.4	License: 1997/01/29 Spud: 1997/03/29 Final Drill: 1997/04/04 Rig Release: 1997/04/05			
TD	1249.0	-140.4	Logs			
	(ft)	(ft)	BHC SONIC, COMP NEUTRON FORM DENSITY, DUAL INDUCTION LOG, GAMMA RAY CORR;			
2WS	2693.6	943.5	Completions			
BFSC	3008.5	628.6	1997/04/10 1202.0 - 1206.0 m 3943.6 - 3956.7 ft JET PERFORATION			
BI	3218.5	418.6	1997/04/10 1208.0 - 1216.0 m 3963.3 - 3989.5 ft JET PERFORATION			
MANN	3658.1	-21.0	1997/04/12 1202.0 - 1216.0 m 3943.6 - 3989.5 ft FRACTURED			
BANT	3917.3	-280.2	Tour Occurrence			
SUNB	3932.1	-295.0	None Reported			
SWFT	3960.0	-322.9				
RIER	4012.5	-375.4				
TD	4097.8	-460.7				

Casings

219.0 mm at 130.0 m, 139.6 mm at 1246.0 m;

Drill Stem Tests

None Reported

Cores

1. 1209.0 - 1223.6

Status History

1997/04/04 DRILLED AND CASED
 1997/04/18 PUMPING CRUDE OIL
 1999/01/01 SUSPENDED CRUDE OIL
 2000/04/28 PUMPING CRUDE OIL

Production

Pool: Sunflower

Note: Well is not currently producing; Last produced on 2003/10/31.

	Oil (m ³)	Gas (10 ³ m ³)	Water (m ³)	Time On (hrs)	Oil (m ³ /d)	Gas (10 ³ m ³ /d)	Water (m ³ /d)
Aug. 2003	0.0	0.0	0.0	0	0.0	0.0	0.0
Sep. 2003	0.0	0.0	0.0	0	0.0	0.0	0.0
Oct. 2003	0.5	0.0	2.5	24	0.5	0.0	2.5
Cumulative	956.7	40.5	215.8	33,583			
	Oil May 97 (m ³)	Gas Dec 97 (10 ³ m ³)	Water May 97 (m ³)	Time On May 97 (hrs)	Oil (m ³ /d)		Water (m ³ /d)
Max Value	117.0	2.2	17.6	744	5.5		0.9

00/01-02-003-04W4/0

Well Name: abc Bumbleberry **Status:** PUMPING CRUDE OIL
Operator: abc Oil & gas Co. Ltd.
Field Name: Bumblebery **Field Code:** 0565
Pool Name: Sunflower **Pool Code:** 0432623
Province: AB **Elevation:** 1,108.6 m

Interval: 1,202.0 - 1,216.0 m KB | 3,943.6 - 3,989.5 ft KB

Pool Datum Depth: 0.0 m SS **Initial Reservoir Pressure:** 0.0 kPa
Well Datum Depth: 0.0 m

Pressure Data

Date	Type	Run Depth (m)	Temp (°C)	Sea Level Datum (m)	Run Depth Gradient (kPa/m)	Shutin Period (hr)	Well Head Pressure (kPa)	Run Depth Pressure (kPa)	Datum Pressure (kPaa)	Remark
2003/11/14	AWS SINGLE SHOT	0.0	0		0.75	4,224	0	0	3,577	

Interval: 1,202.0 - 1,216.0 m KB | 3,943.6 - 3,989.5 ft KB

Pool Datum Depth: -104.1 m SS **Initial Reservoir Pressure:** 9,735.0 kPa
Well Datum Depth: 1,208.1 m

Pressure Data

Date	Type	Run Depth (m)	Temp (°C)	Sea Level Datum (m)	Run Depth Gradient (kPa/m)	Shutin Period (hr)	Well Head Pressure (kPa)	Run Depth Pressure (kPa)	Datum Pressure (kPaa)	Remark
2001/09/11	BH STATIC GRADIENT	1,204.4	32		9.75	385	1,341	3,653	3,774	

Pool Gas Analysis

Pc: 4,483 kPa 650 psi **C₁:** 0.8097 **C₅:** 0.0122 **He:** 0.0022
Tc: 210 °K 378 °R **C₂:** 0.0291 **C₆:** 0.0039 **H₂:** 0.0000
Density: 0.73 0.73 **C₃:** 0.0400 **C₇₊:** 0.0027 **N₂:** 0.0608
 iC₄: 0.0111 **CO₂:** 0.0079
 nC₄: 0.0204 **H₂S:** 0.0000

OIL RESERVE REPORT

Field Name: Bumbleberry
 Pool Name: Sunflower
 Province: AB
 Discovery Year: 1996

Field Code: 555
 Pool Code: 0235153
 Pool Sequence: 000

Reserve Parameters

Mean Formation Depth:	1207 m	3960 ft
Area:	330 ha	815 acres
Net Pay:	4.32 m	14.2 ft
Volume:	1426 e ⁴ m ³	11,557 acre ft
Porosity:	.180	18.0 %
Water Saturation:	.42	42.0 %
Shrinkage:	.87	87.0 %
API Gravity:	37.4	37.4
Initial Pressure:	9735 kPa	1412 Psi
Temperature:	32 °C	90 °F
Solution GOR:	57 m ³ e ³	320 scf/bbl
Initial Oil in Place:	1295 e ³ m ³	8149 MBbl
Primary Recovery Factor:	.10	10 %
Primary Initial Reserves:	130.0 e ³ m ³	818 MBbl
Enhanced Recovery Factor:	.00	%
Enhanced Initial Reserves:	.0 e ³ m ³	Mbbl
Cumulative Production:	75.6 e ³ m ³	476 MBbl
Remaining Recoverable Oil:	54.4 e ³ m ³	342 Mbbl