

NewSave and Save AS ModelDelete Model

Search box for Chart name

▼ Entities

Entity_Cat_1

Ent_1_1

Ent_1_2

Entity_Cat_2

Ent_2_1

Ent_2_2

Entity_Cat_3

Ent_3_1

Ent_3_2

Entity_Cat_4

Ent_4_1

Ent_4_2

Toggle Chart tree

BasicWell DevDownholePVTReservoirLift MethodRun

Fluid TypeLift MethodCompletion Type

Fluid Description

FluidOil and Water

MethodBlack Oil

SeparatorSingle-Stage Separator

EmulsionsNo

HydratesDisable Warning

Water ViscosityUse Default Correlation

Viscosity ModelNewtonian Fluid

Well

Flow TypeTubing Flow

Well TypeProducer

Artificial Lift

MethodNone

User information

Company

Field

Location

WellTutorial 3

Platform

Analyst

DateTuesday , September 30, 2008

Calculation Type

PredictPressure and Temperature (offshore)

ModelRough Approximation

RangeFull System

OutputShow calculating data

Well Completion

TypeCased Hole

Sand ControlNone

Reservoir

Inflow TypeSingle Branch

Gas ConingNo

Comments (Ctrl-Enter for new line)

Exported from Pencil - Wed Nov 08 2023 22:35:00 GMT-0600 (Central Standard Time) - Page 1 of 7

Input Data				
	Measured Depth	True Vertical Depth	Cumulative Displacement	Angle
	(feet)	(feet)	(feet)	(degrees)
1	0	0	0	0
2	8000	8000	0	0
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Downhole

Input Data										
	Label	Type	Measured Depth	Tubing Inside Diameter	Tubing Inside Roughness	Tubing Outside Diameter	Tubing Outside Roughness	Casing Inside Diameter	Casing Inside Roughness	Rate Multiplier
			(feet)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)	
1	WellHead	Xmas Tree	0							
2	Tubing	Tubing	7800	3.992	0.0018					1
3	Casing	Casing	8000					8.3	0.0018	1
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										

PVT - INPUT DATA (Oil_01_OILWELLPVTMATCHING.Anl) (Oil - Black Oil matched)

DoneCancelTablesMatch DataRegressionCorrelationsCalculateSaveOpenCompositionHelp

Use Tables

Export

PVT is MATCHED

Input Parameters

Solution GOR400scf/STB

Oil Gravity30API

Gas Gravity0.75sp. gravity

Water Salinity80000ppm

Impurities

Mole Percent H2S0percent

Mole Percent CO20percent

Mole Percent N20percent

Correlations

Pb, Rs, BoGlaso

Oil ViscosityPetrosky et al

Exported from Pencil - Wed Nov 08 2023 22:35:00 GMT-0600 (Central Standard Time) - Page 4 of 7

Reservoir

Model and Global Variable Selection

Reservoir Model

PI Entry
Vogel
Composite
Darcy
Fetkovich
MultiRate Fetkovich
Jones
MultiRate Jones
Transient
Hydraulically Fractured Well
Horizontal Well - No Flow Boundaries
Horizontal Well - Constant Pressure Upper Boundary
MultiLayer Reservoir
External Entry
Horizontal Well - dP Friction Loss In WellBore
MultiLayer - dP Loss In WellBore
SkinAide (ELF)
Dual Porosity
Horizontal Well - Transverse Vertical Fractures
SPOT

Mechanical / Geometrical Skin

Enter Skin By Hand
Locke
MacLeod
Karakas+Tariq

Deviation and Partial Penetration Skin

Reservoir Pressure

4000

psig

Reservoir Temperature

200

deg F

Water Cut

0

percent

Total GOR

400

scf/STB

Compaction Permeability Reduction Model

No

Relative Permeability

No

Lift Method

Input Data

GasLift Gas Gravity	0	sp. gravity
Mole Percent H2S	0	percent
Mole Percent CO2	0	percent
Mole Percent N2	0	percent
GLR Injected	0	scf/STB
Injected Gas Rate	0	MMscf/day
GLR/ Rate ?	Use GLR Injected Use Injected Gas Rate	
Gas Lift Method	Fixed Depth of Injection Optimum Depth of Injection Valve Depths Specified	

Gaslift Details

Gaslift Valve Depth (Measured) 0 feet

Input Data

Pump Depth (Measured)	0	feet
Operating Frequency	0	Hertz
Maximum OD	0	inches
Length Of Cable	0	feet
Gas Separator Efficiency	0	percent
Number Of Stages	0	
Voltage At Surface	0	Volts
Pump Wear Factor	0	fraction
Gas DeRating Model	<none>	

Current Pump

Current Motor

Current Cable

Exported from Pencil - Wed Nov 08 2023 22:35:00 GMT-0600 (Central Standard Time) - Page 6 of 7

Details of Page

- Entity Navigator
 - Data to be populated from Jason file or local storage
 -
- Model ToolBar
 - will implement later
 -
- Pages
 - Basic - The list of variables with sample data will be provided in separate file either as json object or in excel file.
 -
-

s