



# 2010 PICEANCE REGULATORY OPERATIONS SUMMARY

**Well Name: Latham 29-27D**

API/UWI 05045136500...	AFE Number C10 072089	APD State COLORADO	Surface Legal Location SWSE Sec 29-T5S-R96W	
Spud Date 8/4/2008	Rig Release Date 8/15/2008	KB-Grd (ft) 19.00	Gr Elev (ftKB) 7,933	

## Daily Operations

**1/26/2010 00:00 - 1/27/2010 00:00**

Operations at Report Time

ROAD RIG TO LOCATION

Operations Next 24 Hours

SET ANCHORS.R/U RIG. POOH W/TBG.

Operations Summary

ROAD RIG TO LOCATION. BLAD SNOW OFF LOCATION. SPOT IN RIG & EQUIPMENT.

## Time Log

Comment

CREW TRAVEL. HOLD SAFETY MEETING.

ROAD RIG F/ O32 PAD TO O29 PAD. WAIT ON SNOW TO BE BLADED OFF LOCATION.

SPOT IN RIG & EQUIPMENT. COULD NOT FIND PROPER ANCHORS TO R/U RIG.

R/U CIRC EQUIPMENT. SDFN. CREW TRAVEL.

**1/27/2010 00:00 - 1/28/2010 00:00**

Operations at Report Time

R/U MWS 10. POOH W/ TBG

Operations Next 24 Hours

RIH W/ RBP & PKR, TEST CSG

Operations Summary

R/U MWS 10. KILL TBG. N/D WELLHEAD. N/U BOPE. POOH W/ TBG.

RIH W/ 3-7/8 STRING MILL.

## Time Log

Comment

CREW TRAVEL. HOLD SAFETY MEETING.

R/U MWS RIG 10. SITP- 250. SICP-500. KILL TBG W/ 20 BBLs. N/D WELLHEAD. N/U BOPE. R/U FLOOR & EQUIPMENT.

P/U ON TBG HANGER, HANGER STUCK. COULD NOT WORK FREE @ 80 THOUSAND. WAIT ON HYD HANGER JACK.

R/U HANGER JACK. PULLED HANGER FREE @ 95 THOUSAND. TBG PULLING OVER 15 TO 20 THOUSAND OVER STRING

WEIGHT FOR 90' & STARTED PULLING FREE. CSG PRESSURE WENT F/ 500 PSI TO 1700 PSI. KILL CSG W/ 80 BBLs.

POOH W/ 2-3/8 TBG, 283 JTS TOTAL. RIH W/ 3-7/8 BIT & 3-7/8 STRING MILL TO 7000' TALLYING TBG. SWIFN

CREW TRAVEL

**1/28/2010 00:00 - <End Date?>**

Operations at Report Time

FINISH RIH W/ STRING MILL.

Operations Next 24 Hours

TEST CSG TO 7000 PSI

Operations Summary

FINISH RIH W/ STRING MILL. POOH. RIH W/ RBP & PKR. TEST CSG.

## Time Log

Comment

CREW TRAVEL. HOLD SAFETY MEETING.

SICP- 150, SITP- 50. KILL WELL W/ 50 BBLs. FINISH RIH F/ 7000' W/ 3-7/8 BIT & 3-7/8 STRING MILL TO 8825'.

103' BELOW BOTTOM PERF. POOH W/ BIT & MILL. RIH W/ 4-1/2 RBP & PKR. SET RBP @ 8698', 24' ABOVE TOP PERF. SET PKR @ 8673'. TEST TOOLS

TO 4000 PSI, HELD. TEST CSG TO 4000 PSI, HELD. RELEASE PKR.

POOH W/ PKR. SWIFN. CREW TRAVEL.

**1/29/2010 00:00 - <End Date?>**

Operations at Report Time

N/U FRAC VALVE, TEST CSG

Operations Next 24 Hours

MIRU MWS ON 29-29D

Operations Summary

N/U FRAC VALVE. TEST CSG TO 7000 PSI. RIH & RELEASE RBP. POOH L/D TBG.

## Time Log

Comment

CREW TRAVEL. HOLD SAFETY MEETING..

SIWP- 0. N/D BOPE. N/U FRAC VALVE. TEST 4-1/2 CSG TO 7000 PSI FOR 10 MINS, HELD GOOD.

N/D FRAC VALVE. N/U BOPE. RIH W/ RETRIEVING HEAD. RELEASE RBP @ 8698'. WELL ON SLIGHT

VACUUM. POOH W/ RBP L/D 2-3/8 TBG. N/D BOPE. N/U FRAC VALVE. R/D RIG. SDFN

CREW TRAVEL.

**2/15/2010 00:00 - <End Date?>**

Operations at Report Time

PREP PAD, R/U SCHLUM, SET

Operations Next 24 Hours

FRAC

Operations Summary

CIBP, TEST, PERF #4



# 2010 PICEANCE REGULATORY OPERATIONS SUMMARY

Well Name: Latham 29-27D

### Time Log

Comment

PREP PAD. RIG TESTED CSG TO 7,000 PSI, HELD. MOVE RIG R/U SCHLUMBERGER PERF & FRAC CREWS .

SCHLUMBERGER SET CIBP @ 8,710'. TEST PRESSURE TO 1,200 AND FAILED. SET CIBP #2 @ 8,682' (4' ABOVE CASING COLLAR). RAN LOGGING STRIP AND JOINT APPEARED TO HAVE SOME RATTY SPOTS THAT FIRST CIBP WAS SET IN. FURTHER INSPECTION OF THE STRIP RAN SHOWS WHERE THE RBP & CIBP WAS SET ON THE LOG. CURRENT JOINT LOOKED CLEAN. SCHLUMBERGER TEST CASING TO 6,000 PSI, HELD.

\*\*\*\*\*TRIED TO SET DOWN ON CIBP @ 8,710' BUT NOT THERE.\*\*\*\*\*

SCHLUMBERGER R/U & RIH TO PERFORATE STAGE #4. PERFORATE THE FOLLOWING 8,428'-8,674' AT 2 SHOTS PER FOOT FOR A TOTAL OF 30 HOLES.

HOLD SAFETY MEETING. SCHLUMBERGER R/U & TEST LINES TO 7,000 PSI, HELD. SLICK WATER FRAC STAGE #4 (8,428'-8,674', 30 TOTAL HOLES).

LEAVE WELL S.I.

### Daily Operations

2/16/2010 00:00 - <End Date?>

Operations at Report Time	Operations Next 24 Hours
SCHL FRAC STG #4	FLOW,FLUSH,PERF,FRAC

Operations Summary  
FLOW WELL

### Time Log

Comment

HOLD SAFETY MEETING. SCHLUMBERGER R/U & TEST LINES TO 7,000 PSI, HELD. SLICK WATER FRAC STAGE #4 (8,309'-8,458', 30 TOTAL HOLES).

INITIAL WELL PSI OF 0. BREAKDOWN @ 10.0 BPM @ 2,350 PSI.

MAX RATE OF 80.3 BPM AND A MAX PSI OF 6,380. AVERAGE RATE OF 74.1 BPM AND AN AVERAGE PSI OF 5,298.

30/30 HOLES OPEN. ABLE TO GET FLUSH AWAY. LOST 0 PERFS. FINISHED WITH 30/30.

PUMP 137,847 LBS OF 30/50 WHITE SAND. 10,710 BARRELS OF FLUID. LED WITH 500 GALS. OF 7.5% ACID,

INITIAL SHUT IN PSI OF 2,126. INITIAL FRAC GRADIENT OF .69  
INSTANT SHUT DOWN PSI OF 2,231. FINAL FRAC GRADIENT OF .70

5 MINUTE 2,139 PSI, 10 MINUTE 2,098 PSI, & 15 MINUTE 2,068 PSI.

FLOW WELL @ 1,950 PSI ON A 24 CHOKE.

2/18/2010 00:00 - <End Date?>

Operations at Report Time	Operations Next 24 Hours
FLUSH, SCHL PERF STG #5	FLOW,FLUSH,PERF,FRAC

Operations Summary  
SCHL FRAC STG #5



# 2010 PICEANCE REGULATORY OPERATIONS SUMMARY

Well Name: Latham 29-27D

## Time Log

Comment

SCHLUMBERGER RIG UP AND FLUSH WELL TO TOP PERF @ 8,428'.

SCHLUMBERGER R/U & RIH TO PERFORATE STAGE #5. SET HALLIBURTON 8K COMPOSITE FLOW THROUGH FRAC PLUG @ 8,410'. PERFORATE THE FOLLOWING 8,178-8,389' AT 2 SHOTS PER FOOT FOR A TOTAL OF 30 HOLES.

HOLD SAFETY MEETING. SCHLUMBERGER R/U & TEST LINES TO 7,000 PSI, HELD. SLICK WATER FRAC STAGE #5 (8,178'-8,389', 30 TOTAL HOLES).

INITIAL WELL PSI OF 0. BREAKDOWN @ 39.0 BPM @ 4,900 PSI.

MAX RATE OF 80.5 BPM AND A MAX PSI OF 5,561. AVERAGE RATE OF 74.7 BPM AND AN AVERAGE PSI OF 4,936.

30/30 HOLES OPEN. ABLE TO GET FLUSH AWAY. LOST 0 PERFS. FINISHED WITH 30/30.

PUMP 123,383 LBS OF 30/50 WHITE SAND. 9,572 BARRELS OF FLUID. LED WITH 500 GALS. OF 7.5% ACID,

INITIAL SHUT IN PSI OF 1,765. INITIAL FRAC GRADIENT OF .65  
INSTANT SHUT DOWN PSI OF 1,886. FINAL FRAC GRADIENT OF .67

FLOW WELL @ 1,700 PSI ON A 24 CHOKE.

## Daily Operations

2/20/2010 00:00 - <End Date?>

Operations at Report Time

FLUSH, SCHL PERF STG #6

Operations Next 24 Hours

FLOW

Operations Summary

SCHL FRAC STG #6

## Time Log

Comment

SCHLUMBERGER RIG UP AND FLUSH WELL TO TOP PERF @ 8,178'.

SCHLUMBERGER R/U & RIH TO PERFORATE STAGE #6. SET HALLIBURTON 8K COMPOSITE FLOW THROUGH FRAC PLUG @ 8,160'. PERFORATE THE FOLLOWING 7,901'-8,134' AT 2 SHOTS PER FOOT FOR A TOTAL OF 30 HOLES.

HOLD SAFETY MEETING. SCHLUMBERGER R/U & TEST LINES TO 7,000 PSI, HELD. SLICK WATER FRAC STAGE #6 (7,901'-8,134', 30 TOTAL HOLES).

INITIAL WELL PSI OF 91. BREAKDOWN @ 39.0 BPM @ 3,800 PSI.

MAX RATE OF 80.2 BPM AND A MAX PSI OF 5,948. AVERAGE RATE OF 75.1 BPM AND AN AVERAGE PSI OF 4,416.

30/30 HOLES OPEN. ABLE TO GET FLUSH AWAY. LOST 0 PERFS. FINISHED WITH 30/30.

PUMP 145,629 LBS OF 30/50 WHITE SAND. 11,248 BARRELS OF FLUID. LED WITH 500 GALS. OF 7.5% ACID,

INITIAL SHUT IN PSI OF 1,460. INITIAL FRAC GRADIENT OF .62  
INSTANT SHUT DOWN PSI OF 1,728. FINAL FRAC GRADIENT OF .65

FLOW WELL @ 1,528 PSI ON A 24 CHOKE.

2/22/2010 00:00 - <End Date?>

Operations at Report Time

FLUSH, SCHL PERF STG #7

Operations Next 24 Hours

FLOW

Operations Summary

SCHL FRAC STG #7



# 2010 PICEANCE REGULATORY OPERATIONS SUMMARY

Well Name: Latham 29-27D

## Time Log

Comment

SCHLUMBERGER RIG UP AND FLUSH WELL TO TOP PERF @ 7,901'.

SCHLUMBERGER R/U & RIH TO PERFORATE STAGE #7. SET HALLIBURTON 8K COMPOSITE FLOW THROUGH FRAC PLUG @ 8,160'. PERFORATE THE FOLLOWING 7,686'-7,864' AT 2 SHOTS PER FOOT FOR A TOTAL OF 30 HOLES.

HOLD SAFETY MEETING. SCHLUMBERGER R/U & TEST LINES TO 7,000 PSI, HELD. SLICK WATER FRAC STAGE #7 (7,686'-7,864', 30 TOTAL HOLES).

INITIAL WELL PSI OF 91. BREAKDOWN @ 39.0 BPM @ 3,800 PSI.

MAX RATE OF 80.2 BPM AND A MAX PSI OF 5,948. AVERAGE RATE OF 75.1 BPM AND AN AVERAGE PSI OF 4,416.

30/30 HOLES OPEN. ABLE TO GET FLUSH AWAY. LOST 0 PERFS. FINISHED WITH 30/30.

PUMP 145,629 LBS OF 30/50 WHITE SAND. 11,248 BARRELS OF FLUID. LED WITH 500 GALS. OF 7.5% ACID,

INITIAL SHUT IN PSI OF 1,460. INITIAL FRAC GRADIENT OF .62  
INSTANT SHUT DOWN PSI OF 1,728. FINAL FRAC GRADIENT OF .65

FLOW WELL @ 1,528 PSI ON A 24 CHOKE.

## Daily Operations

3/3/2010 00:00 - <End Date?>

Operations at Report Time  
MIRU COIL TBG, D/O 3/3 CFP'S

Operations Next 24 Hours  
FLOW

Operations Summary  
D/O 2 CIBP'S, R/D COIL

## Time Log

Comment

MAVERICK COIL TBG MIRU EQUIPMENT. HOOK UP WATER LINE. HOOK UP BOPE ON TOP OF FRAC TREE. R/U LUBRICATOR. P/U 3-3/4 MILL & MOTOR. WELL FLOWING. RIH.

	PERFS @ 7,686'-7,864'	(D/O)
CFP @ 7,890'	PERFS @ 7,901'-8,134'	(D/O)
CFP @ 8,160'	PERFS @ 8,178'-8,389'	(D/O)
CFP @ 8,410'	PERFS @ 8,428'-8,674'	(D/O)

CIBP @ 8,682'	(D/O)
CIBP @ 8,710'	(D/O)

\*\*NOTE: THE LAST 2 CFP'S WERE SET +/- 1 YEAR AGO. AND WERE NEVER DRILLED OUT. THE WELL WAS PRODUCED DURING THIS TIME.\*\*

WAS ONLY ABLE TO GET TO 9,377'. WORK ON THIS SPOT FOR 2.0 HRS. 1 SET OF PERFS COVERED. POOH R/D COIL TBG. MOVE OFF OF PAD. PUMP 295,000 SCF N2.

3/25/2010 00:00 - <End Date?>

Operations at Report Time  
R/U MWS RIG 10.

Operations Next 24 Hours  
BREAK CIRC. C/O WELL

Operations Summary  
R/U MWS RIG 10. KILL WELL. N/U BOPE. RIH W/ 3-7/8 MILL P/U 2-3/8 TBG.

## Time Log

Comment

R/U MWS RIG 10. SIWP- 180. KILL WELL W/ 50 BBLs. N/D FRAC VALVE. N/U BOPE. R/U FLOOR & EQUIPMENT. SPOT IN TBG FLOAT. P/U 3-7/8 BLADED MILL, 1 JT 2-3/8 TBG, & 1.81 F- NIPPLE. RIH W/ BHA P/U 2-3/8 TBG TO TOP OF PERFS @ 7686'. OPEN WELL TO TANK. SDFN. CREW TRAVEL.

3/26/2010 00:00 - <End Date?>

Operations at Report Time  
C/O WELL.

Operations Next 24 Hours  
RIH, C/O WELL, LAND TBG.

Operations Summary  
BREAK CIRC. RIH, C/O WELL.



# 2010 PICEANCE REGULATORY OPERATIONS SUMMARY

Well Name: Latham 29-27D

## Time Log

Comment

CREW TRAVEL. HOLD SAFETY MEETING.  
CSG FLOWING @ 180 PSI. R/U NITROGEN FOAM UNIT. BREAK CIRC ABOVE PERFS. CSG FLOWING @ 300 PSI ON 32/64 CHOKE. RIH, TAG @ 9257", 98' ABOVE BOTTOM PERF.  
R/U POWER SWIVEL. CFP- 100 PSI. BREAK CIRC, CFP- 280 PSI ON 32/64 CHOKE. C/O WELL TO 9551', 163' BELOW BOTTOM PERF. CIRC WELL CLEAN 1-1/2 HRS. R/D SWIVEL.  
PULL ABOVE PERFS. FLOW CSG TO TANK OVERNIGHT ON 32/64 CHOKE, FLOWING @ 300 PSI. SDFN. CREW TRAVEL.

## Daily Operations

3/27/2010 00:00 - <End Date?>

Operations at Report Time  
CIRC WELL W/ NITROGEN UNIT

Operations Next 24 Hours  
FLOW WELL.

Operations Summary  
CIRC WELL W/ NITROGEN UNIT

## Time Log

Comment

R/U NITROGEN FOAM UNIT. CFP- 230 PSI ON 32/64 CHOKE. CIRC WELL FOR 8 HRS, GETTING BACK +/- 10 BBLS PER HR. SDFN. FLOW CSG OVERNIGHT.

3/29/2010 00:00 - <End Date?>

Operations at Report Time  
POOH TO 4600', CIRC WELL

Operations Next 24 Hours  
SET KILL PLUG ABOVE STG 3#

Operations Summary  
POOH TO 4500'. CIRC WELL W/ NITROGEN FOAM UNIT.

## Time Log

Comment

CREW TRAVEL. HOLD SAFETY MEETING.  
CSG FLOWING PSI 180 ON 32/64 CHOKE. POOH TO 4500' W/ 3-7/8 MILL. BREAK CIRC. CIRC WELL FOR 6 HRS, MAKING +/- 4 BBLS HRS. FLOW CSG OVERNIGHT. CREW TRAVEL.

3/30/2010 00:00 - <End Date?>

Operations at Report Time  
SET 4-1/2 B/P ABOVE STG 3#

Operations Next 24 Hours  
LAND TBG.

Operations Summary  
POOH F/ 4500'. SET 4-1/2 B/P ABOVE STG 3#.

## Time Log

Comment

CREW TRAVEL. HOLD SAFETY MEETING.  
CFP- 180. KILL WELL W/ 40 BBLS. POOH F/ 4500' W/ 3-7/8 MILL. R/U RMW. SET 4-1/2 CBP @ 8682'. POOH . R/D RMW. BLEED WELL DOWN. WELL STARTING TO BLOW HARD. ATTEMPT TO KILL WELL, PUMPED 40 BBLS & STARTED TO PRESSURE UP. FLOW WELL FOR 2 HRS, CSG @ 100 PSI ON 48/64 CHOKE. KILL WELL W/ 40 BBLS. RIH TO TOP OF PERFS @ 7686' W/ 2-3/8 NOTCH COLLAR, 1 JT 2-3/8 TBG, & 1.81 F- NIPPLE. WELL STAY DEAD. FLOW CSG TO TANK OVER NIGHT.

3/31/2010 00:00 - <End Date?>

Operations at Report Time  
RIH, TAG CBP, LAND TBG.

Operations Next 24 Hours  
FLOW WELL.

Operations Summary  
RIH W/ NOTCH COLLAR, TAG 4-1/2 CBP @ 8682'. POOH TO 8394' & LAND TBG. R/D RIG.

## Time Log

Comment

CREW TRAVEL. HOLD SAFETY MEETING.  
SITP- 900. CFP- 50. BLEED DOWN TBG. KILL TBG W/ 10 BBLS. RIH F/ TOP OF PERFS W/ NOTCH COLLAR TO 4-1/2 CBP @ 8682'. NO FILL. POOH TO 8394' & LAND TBG. N/D BOPE, N/U WELLHEAD. R/D RIG & EQUIPMENT. ROAD RIG TO O32 PAD.

NOTE- BULL HEAD TBG VOLUME W/ NITROGEN FOAM UNIT FOR 30 MINS, SICP- 660, ISITP- 1200. FLOW TBG TO TANK FOR 1 HR, SICP- 800, TFP- 300 ON 48/64 CHOKE.

KB	19.00
TBG HANGER	.80
272 JTS 2-3/8 TBG, N-80	6342.11
1.81 F- NIPPLE	.81
1 JT 2-3/8 TBG	31.22
2-3/8 NOTCH COLLAR	.40
EOT @ .....	8394.34

4/6/2010 00:00 - <End Date?>

Operations at Report Time

Operations Next 24 Hours

Operations Summary

