

## Drilling & Completion Summary

Well Name: UNIVERSITY 2-23 #1

API/UWI 42-383-37626-0000		Property Sub 927662-001		Operator PIONEER NATURAL RESRC USA, INC		State TEXAS		County REAGAN	
Field Name SPRABERRY (TREND AREA)				Surface Legal Location 660' FNL, 2173' FWL, SEC 23, BLK 2, UNIVERSITY LAND, A-U59					
Spud Date 4/26/2012		TD Date 5/7/2012		Drilling Rig Release Date 5/9/2012		On Production Date 6/22/2012		Initial Potential Date 7/5/2012	
Ground Elevation (ft) 2,630.00		Original KB Elevation (ft) 2,645.00		PBDT (All) (ftKB) Original Hole - 10,273.0		Total Depth (All) (ftKB) Original Hole - 10,299.0		Total Depth All (TVD) (ftKB)	
<b>Daily Operation: 4/23/2012 11:30 - 4/24/2012 06:00</b>									
Job Category ORIG DRILL & COMPLETE				Primary Job Type ODR & OCM				AFE Number 022961	
Days From Spud (days) -2	Days on Location (days) 1	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig				
Operations Summary RDRT									
Remarks MOVE RIG ON 4-25-12									
<b>Time Log Summary</b>									
Operation		Com						Dur (hr)	
RDMO		RDRT FROM UNIV 2-20 #11						18.50	
<b>Daily Operation: 4/24/2012 06:00 - 4/25/2012 06:00</b>									
Job Category ORIG DRILL & COMPLETE				Primary Job Type ODR & OCM				AFE Number 022961	
Days From Spud (days) -1	Days on Location (days) 2	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig				
Operations Summary RDRT									
Remarks MOVE RIG ON 4-25-2012.									
<b>Time Log Summary</b>									
Operation		Com						Dur (hr)	
RDMO		RDRT						24.00	
<b>Daily Operation: 4/25/2012 06:00 - 4/26/2012 06:00</b>									
Job Category ORIG DRILL & COMPLETE				Primary Job Type ODR & OCM				AFE Number 022961	
Days From Spud (days) 0	Days on Location (days) 3	End Depth (ftKB) 0.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig				
Operations Summary MIRT, RURT									
Remarks SHOULD SPUD THIS MORNING									
<b>Time Log Summary</b>									
Operation		Com						Dur (hr)	
MIRU		MIRT						12.00	
RURDRT		RURT						12.00	
<b>Daily Operation: 4/26/2012 06:00 - 4/27/2012 06:00</b>									
Job Category ORIG DRILL & COMPLETE				Primary Job Type ODR & OCM				AFE Number 022961	
Days From Spud (days) 1	Days on Location (days) 4	End Depth (ftKB) 558.0	End Depth (TVD) (ftKB) 558.0	Dens Last Mud (lb/gal)	Rig PATTERSON - UTI, 151				
Operations Summary MIRURT, DRLG, CIRC & COND MUD, SERVICE RIG, TOH & LDDC'S, RU DOUBLE D CSG CREW & RUN 8 5/8" CSG, RU SCHLUMBERGER CEMENTERS & CEMENT 8 5/8" CSG, WOC									
Remarks SPUD 11" HOLE @ 11:30 AM. 4-26-2012. TD'D 11" HOLE @ 5:00 PM. 4-26-2012.									
<b>Time Log Summary</b>									
Operation		Com						Dur (hr)	
RURDRT		MIRURT						5.50	
DRLG		DRILLING TO TD						5.50	
CIRC		CIRC & COND MUD						0.50	
RIGSER		SERVICE RIG						0.50	
DPIPE		TOH & LDDC'S						1.50	
CSG		RU DOUBLE D CSG CREW & RUN 13 JTS 8 5/8" CSG & SET @ 558' W/4 CENTRALIZERS						1.50	
CMTPRI		RU SCHLUMBERGER CEMENTERS & CEMENT 8 5/8" CSG W/250 SXS CLASS "C"						2.00	
CMTPRI		WOC						7.00	

## Drilling & Completion Summary

Well Name: UNIVERSITY 2-23 #1

### Daily Operation: 4/27/2012 06:00 - 4/28/2012 06:00

Job Category ORIG DRILL & COMPLETE				Primary Job Type ODR & OCM		AFE Number 022961
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
2	5	1,344.0	1,344.0	8.70	PATTERSON - UTI, 151	

#### Operations Summary

WOC, NU BOP, TEST BOP, RECALIBRATE AUTO DRILL, MU BIT & TIH W/BIT #2, RECALIBRATE AUTO DRILL, DRLG CEMENT, DRLG

#### Remarks

### Time Log Summary

Operation	Com	Dur (hr)
CMTPRI	WOC	5.00
BOPS	NIPPLE UP BOP	1.00
BOPS	TEST BOP TO 250 PSI, LOW AND 500 PSI HIGH	1.00
U_RIG	RECALIBRATE AUTO DRILL SYSTEM	1.00
BHA	MU BIT & BHA, AND TIH W/BIT #2	3.00
U_RIG	RECALIBRATE AUTO DRILL SYSTEM	1.00
DRLCMT	DRILLING CEMENT	0.50
DRLG	DRILLING	11.50

### Daily Operation: 4/28/2012 06:00 - 4/29/2012 06:00

Job Category ORIG DRILL & COMPLETE				Primary Job Type ODR & OCM		AFE Number 022961
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
3	6	2,887.0	2,887.0	8.30	PATTERSON - UTI, 151	

#### Operations Summary

DRLG, LUB RIG, DRLG

#### Remarks

### Time Log Summary

Operation	Com	Dur (hr)
DRLG	DRILLING	4.00
RIGSER	LUBRICATE RIG	0.50
DRLG	DRILLING	19.50

### Daily Operation: 4/29/2012 06:00 - 4/30/2012 06:00

Job Category ORIG DRILL & COMPLETE				Primary Job Type ODR & OCM		AFE Number 022961
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
4	7	4,090.0	4,089.9	8.90	PATTERSON - UTI, 151	

#### Operations Summary

DRLG, LUB RIG, DRLG

#### Remarks

### Time Log Summary

Operation	Com	Dur (hr)
DRLG	DRILLING	6.50
RIGSER	SERVICE RIG	0.50
DRLG	DRILLING	17.00

### Daily Operation: 4/30/2012 06:00 - 5/1/2012 06:00

Job Category ORIG DRILL & COMPLETE				Primary Job Type ODR & OCM		AFE Number 022961
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
5	8	5,415.0	5,414.9	8.80	PATTERSON - UTI, 151	

#### Operations Summary

DRLG, SERVICE RIG, DRLG

#### Remarks

### Time Log Summary

Operation	Com	Dur (hr)
DRLG	DRILLING	5.50
RIGSER	SERVICE RIG	0.50
DRLG	DRILLING	18.00

## Drilling & Completion Summary

Well Name: UNIVERSITY 2-23 #1

Daily Operation: 5/1/2012 06:00 - 5/2/2012 06:00						
Job Category ORIG DRILL & COMPLETE				Primary Job Type ODR & OCM		AFE Number 022961
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
6	9	6,237.0	6,236.9	8.90	PATTERSON - UTI, 151	
Operations Summary DRLG, SERVICE RIG, DRLG						
Remarks						
Time Log Summary						
Operation	Com					Dur (hr)
DRLG	DRILLING					1.00
RIGSER	SERVICE RIG					0.50
DRLG	DRILLING					22.50
Daily Operation: 5/2/2012 06:00 - 5/3/2012 06:00						
Job Category ORIG DRILL & COMPLETE				Primary Job Type ODR & OCM		AFE Number 022961
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
7	10	7,213.0	7,212.9	8.90	PATTERSON - UTI, 151	
Operations Summary DRLG, SERVICE RIG, DRLG, SERVICE RIG, DRLG						
Remarks						
Time Log Summary						
Operation	Com					Dur (hr)
DRLG	DRILLING					0.50
RIGSER	SERVICE RIG					0.50
DRLG	DRILLING					9.00
RIGSER	CHANGE OUT ROTATING HEAD					0.50
DRLG	DRILLING					13.50
Daily Operation: 5/3/2012 06:00 - 5/4/2012 06:00						
Job Category ORIG DRILL & COMPLETE				Primary Job Type ODR & OCM		AFE Number 022961
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
8	11	8,096.0	8,095.9	9.00	PATTERSON - UTI, 151	
Operations Summary DRLG, SERVICE RIG, DRLG						
Remarks						
Time Log Summary						
Operation	Com					Dur (hr)
DRLG	DRILLING					8.00
RIGSER	SERVICE RIG					0.50
DRLG	DRILLING					15.50
Daily Operation: 5/4/2012 06:00 - 5/5/2012 06:00						
Job Category ORIG DRILL & COMPLETE				Primary Job Type ODR & OCM		AFE Number 022961
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
9	12	8,915.0	8,914.9	9.00	PATTERSON - UTI, 151	
Operations Summary DRLG, SERVICE RIG, DRLG						
Remarks						
Time Log Summary						
Operation	Com					Dur (hr)
DRLG	DRILLING					6.50
RIGSER	SERVICE RIG					0.50
DRLG	DRILLING					17.00
Daily Operation: 5/5/2012 06:00 - 5/6/2012 06:00						
Job Category ORIG DRILL & COMPLETE				Primary Job Type ODR & OCM		AFE Number 022961
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig	
10	13	9,638.0		8.90	PATTERSON - UTI, 151	
Operations Summary DRLG, CHANGE OUT ROT HEAD, DRLG, SERVICE RIG, DRLG						
Remarks						

## Drilling & Completion Summary

Well Name: UNIVERSITY 2-23 #1

### Time Log Summary

Operation	Com	Dur (hr)
DRLG	DRILLING	8.00
RIGSER	CHANGED OUT ROTATING HEAD	0.50
DRLG	DRILLING	2.50
RIGSER	SERVICE RIG	0.50
DRLG	DRILLING	12.50

### Daily Operation: 5/6/2012 06:00 - 5/7/2012 06:00

Job Category				Primary Job Type			AFE Number	
ORIG DRILL & COMPLETE				ODR & OCM			022961	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)		Dens Last Mud (lb/gal)	Rig		
11	14	10,114.0			9.00	PATTERSON - UTI, 151		
Operations Summary								
DRLG, SERVICE RIG, DRLG								
Remarks								

### Time Log Summary

Operation	Com	Dur (hr)
DRLG	DRILLING	10.50
RIGSER	SERVICE RIG	0.50
DRLG	DRILLING	13.00

### Daily Operation: 5/7/2012 06:00 - 5/8/2012 06:00

Job Category				Primary Job Type			AFE Number	
ORIG DRILL & COMPLETE				ODR & OCM			022961	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
12	15	10,299.0		9.00	PATTERSON - UTI, 151			
Operations Summary								
DRLG, SERVICE RIG, DRLG, CIRC & PUMP SWEEP, LDDP & DC'S								
Remarks								
TD'D 7 7/8" HOLE @ 7:00 PM. 5-7-2012.								

### Time Log Summary

Operation	Com	Dur (hr)
DRLG	DRILLING	1.00
RIGSER	SERVICE RIG	0.50
DRLG	DRILLING TO TD	11.50
CIRC	CIRC, PUMP STARCH SWEEP	2.00
DPIPE	LDDP, DC'S, SAFETY MEETING W/3RD PARTY	9.00

### Daily Operation: 5/8/2012 06:00 - 5/8/2012 20:00

Job Category			Primary Job Type			AFE Number	
ORIG DRILL & COMPLETE			ODR & OCM			022961	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig		
12	16	10,299.0		9.00	PATTERSON - UTI, 151		
Operations Summary							
LDDC'S, RU CSG CREW & RUN 4 1/2" CSG, RD CSG CREW, RU SCHLUMBERGER CEMENTERS & CEMENT 4 1/2" CSG							
Remarks							

### Time Log Summary

Operation	Com	Dur (hr)
DPIPE	LDDC'S & TRI & SQU	3.00
CSG	RU CSG CREW & RUN 244 4 1/2" CSG & SET @ 10,296.41' W/28 CENTRALIZERS - SAFETY MEETING W/3RD PARTIES	6.00
CSG	CIRC, RD CSG CREW	1.00
CMTPRI	RU SCHLUMBERGER CEMENTERS & CEMENT 4 1/2" CSG W/1610 SXS TXI LITEWEIGHT	4.00
CMTPRI	WOC, ND, SET SLIPS, CUT OFF CSG, RELEASE RIG TO UNIV 58-16 #4	4.00

## Drilling & Completion Summary

Well Name: UNIVERSITY 2-23 #1

Daily Operation: 6/1/2012 06:00 - 6/1/2012 18:00

Job Category ORIG DRILL & COMPLETE			Primary Job Type ODR & OCM		AFE Number 022961
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig
36	16	10,299.0		9.00	BAKER HUGHES, N/A

### Operations Summary

BAKER HUGHES RAN GR/N/CCL. DATUM ELEV 2630 GL 2645 KB  
 LOG TOP U. SPBY 6278 (-3633)  
 LOG TOP L. SPBY 6830 (-4185)  
 LOG TOP DEAN 7654 (-5009)  
 BASE DEAN 7830 (-5185)  
 PBDT 10318  
 TD 10299

### 1)SPOTTED ACID W/ WIRELINE DUMP BAILER

PERF'D LOWER WOLF INTERVAL W/ 3 SPF @ 9844-9848, 9914-9918, 10000-10004 & 10056-10060 (60 HOLES).  
 BREAK DOWN LOWER WOLF PERFS W/ 2000 GAL 15% HCL ACID. BDP 4347 PSI. 1 DRUM SCALE INHIBITOR IN PAD.  
 SD FRAC LOWER WOLF W/ 172,037 GALS FR/12# XL ASSIST GEL & 139,813 #20/40 BRADY SAND. SPOT 1500 GAL 15% HCL ACID ACROSS 1ST MIDDLE WOLF INTERVAL ON FLUSH. MAX RATE 65.2 BPM @ 6475 PSIG. ISIP - 3635.

### 2)SET SOLID COMPOSITE PLUG @ 9820'

PERF'D 1ST MIDDLE WOLF INTERVAL W/ 3 SPF @ 9598-9602, 9648-9652, 9676-9680 & 9770-9774 (60 HOLES).  
 BREAK DOWN 1ST MIDDLE WOLF PERFS W/ SPOT ACID GAL 15% HCL ACID. BDP 3298 PSI. 1 DRUM SCALE INHIBITOR IN PAD.  
 SD FRAC 1ST MIDDLE WOLF W/ 173,394 GALS FR/12# XL ASSIST GEL & 140,299 #20/40 BRADY SAND. SPOT 1500 GAL 15% HCL ACID ACROSS 2ND MIDDLE WOLF INTERVAL ON FLUSH. MAX RATE 65.9 BPM @ 6430 PSIG. ISIP - 3987.

### 3)SET SOLID COMPOSITE PLUG @ 9400'

PERF'D 2ND MIDDLE WOLF INTERVAL W/ 3 SPF @ 9178-9182, 9224-9228, 9290-9294 & 9350-9354 (60 HOLES).  
 BREAK DOWN 2ND MIDDLE WOLF PERFS W/ SPOT ACID GAL 15% HCL ACID. BDP 3376 PSI. 1 DRUM SCALE INHIBITOR IN PAD.  
 SD FRAC 2ND MIDDLE WOLF W/ 172,470 GALS FR/12# XL ASSIST GEL & 139,736 #20/40 BRADY SAND. SPOT 1500 GAL 15% HCL ACID ACROSS 3RD MIDDLE WOLF INTERVAL ON FLUSH. MAX RATE 65 BPM @ 6202 PSIG. ISIP - 3740.

### Remarks

### 4)SET SOLID COMPOSITE PLUG @ 8840'

PERF'D 3RD MIDDLE WOLF INTERVAL W/ 3 SPF @ 8588-8592, 8664-8668, 8742-8746 & 8772-8776 (60 HOLES).  
 BREAK DOWN 3RD MIDDLE WOLF PERFS W/ SPOT ACID GAL 15% HCL ACID. BDP 3664 PSI. 1 DRUM SCALE INHIBITOR IN PAD.  
 SD FRAC 3RD MIDDLE WOLF W/ 172,302 GALS FR/12# XL ASSIST GEL & 139,793 #20/40 BRADY SAND. SPOT 1500 GAL 15% HCL ACID ACROSS 4TH MIDDLE WOLF INTERVAL ON FLUSH.  
 MAX RATE 65.8 BPM @ 5972 PSIG. ISIP - 3194.

### 5)SET SOLID COMPOSITE PLUG @ 8542'

PERF'D 4TH MIDDLE WOLF INTERVAL W/ 3 SPF @ 8308-8312, 8372-8376, 8462-8466 & 8508-8512 (60 HOLES).  
 BREAK DOWN 4TH MIDDLE WOLF PERFS W/ SPOT ACID, 15% HCL ACID. BDP 2767 PSI. 1 DRUM SCALE INHIBITOR IN PAD.  
 SD FRAC 4TH MIDDLE WOLF INTERVAL W/ 172,470 GALS FR/12# XL ASSIST GEL & 140,054 #20/40 BRADY SAND. SPOT 1500 GAL 15% HCL ACID ACROSS UPPER WOLF INTERVAL ON FLUSH.  
 MAX RATE 65.2 BPM @ 5364 PSIG. ISIP - 3062.

### 6)SET SOLID COMPOSITE PLUG @ 8210'

PERF'D UPPER WOLF INTERVAL W/ 3 SPF @ 7974-7978, 8038-8042, 8091-8095 & 8176-8180 (60 HOLES).  
 BREAK DOWN UPPER WOLF PERFS W/ SPOT ACID, 15% HCL ACID. BDP 2888 PSI. 1 DRUM SCALE INHIBITOR IN PAD.  
 SD FRAC UPPER WOLF W/ 172,218 GALS FR/12# XL ASSIST & 139,077 #20/40 BRADY SAND. SPOT 1500 GALS 15% HCL ACID ACROSS DEAN ON FLUSH. MAX RATE 65.2 BPM @ 5043 PSIG. ISIP - 2127.

FRAC CONT: 6/2/12

### Time Log Summary

Operation	Com	Dur (hr)
CLNOUT	MIRU, OPEN WELL ON VACCUM, N/D FRAC HEAD, N/U PROD HEAD & BOP, TIH W/ 3 7/8" BIT & 190 JTS OF 2 3/8" TBG, SISD.	12.00

## Drilling & Completion Summary

Well Name: UNIVERSITY 2-23 #1

### Daily Operation: 6/2/2012 06:00 - 6/2/2012 18:00

Job Category ORIG DRILL & COMPLETE				Primary Job Type ODR & OCM			AFE Number 022961	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
37	16	10,299.0		9.00	BAKER HUGHES, N/A			

#### Operations Summary

FRAC CONTINUED FROM: 6/1/12

7)SET SOLID COMPOSITE PLUG @ 7860'

PERF'D DEAN INTERVAL W/ 3 SPF @ 7648-7652, 7774-7778 & 7824-7828 (45 HOLES).

BREAK DOWN DEAN PERFS W/ SPOT ACID, 15% HCL ACID. BDP 1783 PSI. 1 DRUM SCALE INHIBITOR IN PAD.

SD FRAC DEAN INTERVAL W/ 76,918 GALS 15# XLINK GEL & 157,809 #20/40 BRADY SAND. SPOT 1500 GAL 15% HCL ACID ACROSS 1ST

MIDDLE SPBY INTERVAL ON FLUSH.

MAX RATE 54.1 BPM @ 3828 PSIG. ISIP - 1793.

8)SET SOLID COMPOSITE PLUG @ 7220'

PERF'D 1ST MIDDLE SPBY INTERVAL W/ 3 SPF @ 6956-6960, 7012-7016 & 7160-7164 (45 HOLES).

BREAK DOWN 1ST MIDDLE SPBY PERFS W/ SPOT ACID, 15% HCL ACID. BDP 1232 PSI. 1 DRUM SCALE INHIBITOR IN PAD.

SD FRAC 1ST MIDDLE SPBY INTERVAL W/ 75,355 GALS 15# XLINK GEL & 156,870 #20/40 BRADY SAND. SPOT 1500 GAL 15% HCL ACID ACROSS

2ND MIDDLE SPBY INTERVAL ON FLUSH.

MAX RATE 53.3 BPM @ 2966 PSIG. ISIP - 1035.

9)SET SOLID COMPOSITE PLUG @ 6924'

PERF'D 2ND MIDDLE SPBY INTERVAL W/ 3 SPF @ 6678-6682, 6710-6714 & 6890-6894 (45 HOLES).

BREAK DOWN 2ND MIDDLE SPBY PERFS W/ SPOT ACID, 15% HCL ACID. BDP 903 PSI. 1 DRUM SCALE INHIBITOR IN PAD.

SD FRAC 2ND MIDDLE SPBY INTERVAL W/ 71,234 GALS 15# LINEAR GEL & 147,778 #20/40 BRADY SAND.

MAX RATE 54.5 BPM @ 2841 PSIG. ISIP - 1112.

TBLWTR - 31,384 BBLs

#### Remarks

### Time Log Summary

Operation	Com	Dur (hr)

### Daily Operation: 6/12/2012 06:00 - 6/12/2012 18:00

Job Category ORIG DRILL & COMPLETE			Primary Job Type ODR & OCM			AFE Number 022961	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig		
47	17	10,299.0		9.00	PIONEER WELL SERVICE, 21		

#### Operations Summary

RUPU

#### Remarks

### Time Log Summary

Operation	Com	Dur (hr)
CLNOUT	DROVE RIG, CREW & OILFIELD FISHING TO LOCATION. OPEN WELL W/ 950 PSI. BLOW DN WELL REST OF THE DAY TO 150 PSI & STILL FLOWING HARD. SECURE WELL & SDFN.	12.00

### Daily Operation: 6/13/2012 06:00 - 6/13/2012 18:00

Job Category ORIG DRILL & COMPLETE				Primary Job Type ODR & OCM			AFE Number 022961	
Days From Spud (days)	Days on Location (days)	End Depth (ftKB)	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal)	Rig			
48	17	10,299.0		9.00	PIONEER WELL SERVICE, 21			

#### Operations Summary

ND FRAC VALVE, NU WH & BOP.

#### Remarks

### Time Log Summary

Operation	Com	Dur (hr)
CLNOUT	OPEN WELL W/ 550 PSI, TOOK 2 HRS TO BLOW DN. ND FRAC VALVE, NU WH & BOP. PU 3 7/8" COLLAR MILL & RIH ON 2 3/8" TBG. TAG PLUG @ 6924', RU PUMP & SWIVEL, BREAK CIRC, CLEAR PLUG & CIRC CLEAN. TAG @ 7200', WASH DN TO PLUG @ 7220', CLEAR PLUG & CIRC CLEAN. TAG @ 7800', CLEAN OUT TO PLUG @ 7880', CIRC CLEAN & LD SWIVEL. PULL ABOVE TOP PERF & SDFN.	12.00

## Drilling & Completion Summary

Well Name: UNIVERSITY 2-23 #1

### Daily Operation: 6/14/2012 06:00 - 6/14/2012 18:00

Job Category ORIG DRILL & COMPLETE			Primary Job Type ODR & OCM			AFE Number 022961
Days From Spud (days) 49	Days on Location (days) 18	End Depth (ftKB) 10,299.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal) 9.00	Rig PIONEER WELL SERVICE, 21	
Operations Summary DRILL PLUGS @ 7880', 8210' & 8542'.						
Remarks						

### Time Log Summary

Operation	Com	Dur (hr)
CLNOUT	OPEN WELL W/ 350 PSI, TOOK 1 HR TO BLOW DN & KILL. RAN BACK IN HOLE TO 7880', RU POWER SWIVEL, CLEAR PLUG & CIRC CLEAN. TAG @ 8180', CLEAN OUT TO 8210', CLEAR PLUG & CIRC CLEAN. TAG SAND RIGHT UNDER PLUG @ 8215', CLEAN OUT TO PLUG @ 8542', CLEAR PLUG & CIRC CLEAN. TAG @ 8620', CLEAN OUT TO PLUG @ 8840', WELL FLOWING HARD. LD SWIVEL & PUMP 100 BBLS BRINE WATER. PULL ABOVE TOP PERF. SECURE WELL & SDFN.	12.00

### Daily Operation: 6/15/2012 06:00 - 6/15/2012 18:00

Job Category ORIG DRILL & COMPLETE			Primary Job Type ODR & OCM			AFE Number 022961
Days From Spud (days) 50	Days on Location (days) 18	End Depth (ftKB) 10,299.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal) 9.00	Rig PIONEER WELL SERVICE, 21	
Operations Summary DRILL PLUGS @ 8840', 9400', 9820' & CLEAN OUT TO PBTD @ 10350'.						
Remarks						

### Time Log Summary

Operation	Com	Dur (hr)
CLNOUT	OPEN WELL W/ 550 PSI, TOOK 1 HR TO BLOW DN & KILL WELL. RIH TO 8840', RU POWER SWIVEL, BREAK CIRC, CLEAR PLUG & CIRC CLEAN. TAG @ 9320', CLEAN OUT TO 9400', CLEAR PLUG & CIRC CLEAN. TAG @ 9720', CLEAN OUT TO PLUG @ 9820', CLEAR PLUG & CIRC CLEAN. TAG @ 9980', CLEAN OUT TO 10350' @ PBTD. CIRC BOTTOMS UP IN 1 HR & LD SWIVEL. PULL 78 STANDS TO ABOVE TOP PERFS. SECURE WELL & SDFN.	12.00

### Daily Operation: 6/16/2012 06:00 - 6/16/2012 18:00

Job Category ORIG DRILL & COMPLETE			Primary Job Type ODR & OCM			AFE Number 022961
Days From Spud (days) 51	Days on Location (days) 19	End Depth (ftKB) 10,299.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal) 9.00	Rig PIONEER WELL SERVICE, 21	
Operations Summary PU BHA & RIH W/ TBG. SET TAC, ND BOP & GET TOOLS READY TO RUN RODS.						
Remarks						

### Time Log Summary

Operation	Com	Dur (hr)
CLNOUT	OPEN WELL W/ 1000 PSI. TOOK 2 HRS TO BLOW DN & KILL. FINISH POOH W/ COLLAR MILL & LD. PU BHA & RIH W/ TBG. SET TAC, ND BOP & GET TOOLS READY TO RUN RODS. RODS DID NOT SHOW UP ON LOCATION. SECURE WELL & SDTM.	12.00

### Daily Operation: 6/18/2012 06:00 - 6/18/2012 18:00

Job Category ORIG DRILL & COMPLETE			Primary Job Type ODR & OCM			AFE Number 022961
Days From Spud (days) 53	Days on Location (days) 19	End Depth (ftKB) 10,299.0	End Depth (TVD) (ftKB)	Dens Last Mud (lb/gal) 9.00	Rig PIONEER WELL SERVICE, 21	
Operations Summary RDMO						
Remarks						

### Time Log Summary

Operation	Com	Dur (hr)
CLNOUT	OPEN WELL W/ 700 PSI. TOOK 15 MIN TO BLOW DN. W/O RODS TO ARRIVE AT LOCATION. PU PUMP & RIH W/ RODS. HWO, LOAD TBG, CHECK PA. RDMO. TURN WELL OVER TO PROD.	12.00

### Daily Operation: 7/5/2012 06:00 - 7/5/2012 06:00

Job Category							Primary Job Type			AFE Number	
ORIG DRILL & COMPLETE							ODR & OCM			022961	
Days From Spud (days)		Days on Location (days)		End Depth (ftKB)		End Depth (TVD) (ftKB)		Dens Last Mud (lb/gal)		Rig	
70		19		10,299.0				9.00			
Operations Summary											
FINAL REPORT											
Remarks											

### Time Log Summary

Operation	Com	Dur (hr)

## Drilling & Completion Summary

Well Name: UNIVERSITY 2-23 #1

### WELL DETAILS

Well Name UNIVERSITY 2-23 #1	API/UWI 42-383-37626-0000	Operator PIONEER NATURAL RESRC USA, INC
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### Wellbore Hole Size

Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Start Date	End Date
Surface	11	15.0	558.0	4/26/2012	4/26/2012
Production	7 7/8	558.0	10,299.0	4/27/2012	5/7/2012

### Surface Casing

Set Depth (ftKB)	Run Date	Centralizers
558.0	4/26/2012	4

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	8 5/8	7.921	32.00	J-55	90.80	2	15.0	105.8
Casing Joints	8 5/8	8.097	24.00	L/S	451.20	11	105.8	557.0
Texas Pattern Guide Shoe	9 1/8	8.625			1.00		557.0	558.0

### Surface Casing Cement

Type Casing	String Surface, 558.0ftKB	Cementing Start Date 4/26/2012	Cementing End Date 4/26/2012	Cementing Company SCHLUMBERGER	Top (ftKB) 15.0	Btm (ftKB) 558.0
Class Class C	Amount (sacks) 250	Yield (ft³/sack) 1.71	Density (lb/gal) 13.60			

### Production Casing

Set Depth (ftKB)	Run Date	Centralizers
10,296.4	5/8/2012	28

Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Casing Joints	4 1/2	4.000	11.60	L-80	3,274.04	78	15.0	3,289.0
Ryte Wrap	4 1/2	4.000	11.60	L-80	2,578.62	61	3,289.0	5,867.7
Casing Joints	4 1/2	4.000	11.60	L-80	214.92	5	5,867.7	6,082.6
Marker Joint	4 1/2	4.000	11.60	L-80	10.41	1	6,082.6	6,093.0
Casing Joints	4 1/2	4.000	11.60	L-80	4,180.31	98	6,093.0	10,273.3
Float Collar	4 1/2	4.000			1.00		10,273.3	10,274.3
Shoe Joint	4 1/2	4.000	11.60	L-80	21.11	1	10,274.3	10,295.4
Float Shoe	4 1/2	4.000			1.00		10,295.4	10,296.4

### Production Casing Cement

Type Casing	String Production, 10,296.4ftKB	Cementing Start Date 5/8/2012	Cementing End Date 5/8/2012	Cementing Company SCHLUMBERGER	Top (ftKB) 1,900.0	Btm (ftKB) 10,296.4
Class TXI LITEWEIGHT	Amount (sacks) 1,610	Yield (ft³/sack) 1.60	Density (lb/gal) 12.50			

### Cement Squeeze

Description	Type	String	Cementing Start Date	Cementing End Date	Top (ftKB)	Btm (ftKB)
Amount (sacks)	Yield (ft³/sack)	Dens (lb/gal)				

### Perforations

Top (ftKB)	Btm (ftKB)	Zone	Shot Dens (shots/ft)	Entered Shot Total	Com
6,678.0	6,894.0	Middle Spraberry, Original Hole	3.0	45	
6,956.0	7,164.0	Middle Spraberry, Original Hole	3.0	45	
7,648.0	7,828.0	Dean, Original Hole	3.0	45	
7,974.0	8,180.0	Upper Wolfcamp, Original Hole	3.0	60	
8,308.0	8,512.0	Middle Wolfcamp, Original Hole	3.0	60	
8,588.0	8,776.0	Middle Wolfcamp, Original Hole	3.0	60	
9,178.0	9,354.0	Middle Wolfcamp, Original Hole	3.0	60	
9,598.0	9,774.0	Middle Wolfcamp, Original Hole	3.0	60	
9,844.0	10,060.0	Lower Wolfcamp, Original Hole	3.0	60	

### Completion (FRAC) Details

#### Sand Frac on 6/1/2012 06:00

Date 6/1/2012	Type Sand Frac	Zone	Stim/Treat Company BJ Services Company	Min Top Depth (ftKB)	Max Btm Depth (ftKB)
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### GEL

Fluid Name	Total Water/Clean Volume (bbl)
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### SAND & ACID

Additive	Type	Amount	Units	Sand Size	Concentration...

## Drilling & Completion Summary

Well Name: UNIVERSITY 2-23 #1

Zones										
Zone Name								Top (ftKB)		
Lower Wolfcamp										
Middle Wolfcamp										
Upper Wolfcamp										
Dean										
Middle Spraberry										
Tubing Details										
Tubing Description						Set Depth (ftKB)		Run Date		
Tubing - Production						6,560.5		6/18/2012		
Tubing Components										
Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btn (ftKB)			
Tubing	2 3/8	4.70	J-55	4,867.00	157	119.5	4,986.5			
Tubing	2 3/8	4.70	J-55	1,550.00	50	4,986.5	6,536.5			
Seal Nipple	2 3/8				1	6,536.5	6,536.5			
Ported Nipple	2 3/8				1	6,536.5	6,536.5			
Anchor/catcher	4 1/2			4.00	1	6,536.5	6,540.5			
MMA	3 1/2			20.00	1	6,540.5	6,560.5			
Tubing	2 3/8	4.70	J-55			6,560.5	6,560.5			
Rod Strings										
Rod Description						Set Depth (ftKB)		Run Date		
Rod						6,579.0		6/18/2012		
Rod Components										
Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btn (ftKB)	Make	Model	SN
Polished Rod	1 1/4			26.00	1	5.0	31.0	Norris	Alloy Steel	
Continuous Sucker Rod	7/8	2.04	D	100.00	4	31.0	131.0	Corod	4	
Fiberglass Sucker Rod	1			3,000.00	80	131.0	3,131.0	Fiberflex		
Continuous Sucker Rod	7/8	2.04	D	2,800.00	112	3,131.0	5,931.0	Corod	4	
K-Bar	7/8			625.00	25	5,931.0	6,556.0			
Stabilizer	7/8			2.00	1	6,556.0	6,558.0			
Rod Pump 2" x 1.25" x 20' rhbc	7/8			20.00	1	6,558.0	6,578.0			
TK-90 ON/OFF TOOL	1 1/4			1.00	1	6,578.0	6,579.0			
Well Tests										
Description				Volume Oil Total (bbl)		Volume Gas Total (MCF)		Volume Water Total (bbl)		
WELL TEST				704.0		420.000		2287.0		
Start Date	End Date	Sz Dia Choke (in)	Com			Vol Oil Tot (bbl)	Vol Gas Tot (MCF)	Vol Water Tot (bbl)		
5/21/2012						0.0	0.000	0.0		
6/22/2012			F			70.0	0.000	64.0		
6/23/2012			F			44.0	0.000	66.0		
6/24/2012			F			20.0	0.000	30.0		
6/25/2012			HLP - F			40.0	0.000	220.0		
6/26/2012			HLP - F			55.0	46.000	220.0		
6/27/2012			HLP - F			55.0	42.000	229.0		
6/28/2012			HLP - F			55.0	48.000	211.0		
6/29/2012			HLP - F			54.0	41.000	176.0		
6/30/2012			HLP - F			56.0	39.000	180.0		
7/1/2012			HLP - F			55.0	40.000	181.0		
7/2/2012			HLP - F			55.0	41.000	179.0		
7/3/2012			HLP - F			55.0	45.000	179.0		
7/4/2012			HLP - F			45.0	39.000	176.0		
7/5/2012			COMP IP: 44.0 DEG. GRAVITY			45.0	39.000	176.0		
Description				Volume Oil Total (bbl)		Volume Gas Total (MCF)		Volume Water Total (bbl)		
COMPLETION IP										
Start Date	End Date	Sz Dia Choke (in)	Com			Vol Oil Tot (bbl)	Vol Gas Tot (MCF)	Vol Water Tot (bbl)		

## Drilling & Completion Summary

Well Name: UNIVERSITY 2-23 #1

Directional Survey						
Date			Description			
4/26/2012			MAIN HOLE SURVEY			
Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	Unwrap Displace (ft)	Survey Company
4/26/2012	513.00	1.10		512.97	4.92	
4/28/2012	965.00	0.80		964.97	12.42	
4/28/2012	1,465.00	0.70		1,464.97	18.96	
4/28/2012	1,965.00	0.60		1,964.97	24.64	
4/29/2012	2,574.00	0.80		2,573.96	32.08	
4/29/2012	3,074.00	0.20		3,073.96	36.44	
4/29/2012	3,545.00	0.40		3,544.95	38.90	
4/30/2012	3,997.00	0.40		3,996.94	42.06	
4/30/2012	4,497.00	0.40		4,496.93	45.55	
5/1/2012	5,130.00	0.30		5,129.93	49.42	
5/1/2012	5,630.00	0.30		5,629.92	52.04	
5/2/2012	6,014.00	0.30		6,013.92	54.05	
5/2/2012	6,678.00	0.50		6,677.92	58.68	
5/3/2012	7,130.00	0.60		7,129.92	63.02	
5/3/2012	7,625.00	1.00		7,624.91	69.93	
5/4/2012	8,125.00	0.70		8,124.91	77.35	
5/4/2012	8,623.00	0.90		8,622.91	84.30	
5/5/2012	9,125.00	0.70		9,124.91	91.31	
5/6/2012	9,615.00	1.00		9,614.91	98.58	