



## Well Chronology with Components - All Jobs - NEW

Sub-Division DELAWARE BASIN	County CRANE	Field Name UNIVERSITY WADDELL	Region CRANE	State/Province TX		
Surface Legal Location	API/UWI 4210330828	Latitude (°) 31° 31' 34.46" N	Longitude (°) 102° 28' 9.129" W	Ground Elev M... 2,662.00	Orig KB Elev (ft) 13.00	Tubing Head Elevation (ft) 0.00
Original Drig Rig Release Date 11/25/1973	Original Drig Spud Date 10/21/1973	User Boolean 2 No	User Num 6 1.0000	PBTD (All) (ftKB) OH - 8,193.0	Total Depth (ftKB)	

## Kick Offs &amp; Key Depths

Wellbore API/UWI 421033082800	Bottom Hole Legal Location	SAP Well ID 15243	Profile Type	VS Dir (°) 0.00
Wellbore API/UWI 421033082800	Bottom Hole Legal Location	SAP Well ID 15243	Profile Type	VS Dir (°) 0.00

## Casing String: SURFACE 1, 429.0ftKB

Set Date 3/16/2005	Centralizer/Turbolizer				Scratchers				String Min Drift (in) 10.928
Item Des	Icon	Top (ftKB)	Btm (ftKB)	Jts	ID (in)	OD (in)	Wt (kips)	Grade	Top Thread
SURFACE		0.0	429.0	0	11.084	11 3/4	18.0		

## Casing String: INTERMEDIATE 1, 3,682.0ftKB

Set Date 3/16/2005	Centralizer/Turbolizer				Scratchers				String Min Drift (in) 7.972	
Item Des		Icon	Top (ftKB)	Btm (ftKB)	Jts	ID (in)	OD (in)	Wt (kips)	Grade	Top Thread
INTERMED 1			0.0	3,682.0	0	8.097	8 5/8	88.4		








## Casing String: PROD (LONG STRING), 9,249.0ftKB

Set Date 3/16/2005	Centralizer/Turboizer				Scratchers				String Min Drift (in) 4.825
Item Des	Icon	Top (ftKB)	Btm (ftKB)	Jts	ID (in)	OD (in)	Wt (kips)	Grade	Top Thread
PROD 1		0.0	9,249.0	0	4.950	5 1/2	143.4		







## Cement: &lt;des&gt;, &lt;cementtyp&gt;, &lt;dtmstart&gt;

Cementing Company			Evaluation Method		Cement Evaluation Results		
Stage Number	Description				Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?
Fluid	Cement Class	Amount of Cement (sacks)	Yield (ft³/sack)	Mix H2O Ratio (gal/sack)	Vol Pumped (bbl)	Fluid Des	

## Tubing String: TUBING - PRODUCTION set at 7,503.3ftKB on 9/25/2015 11:00

Tubing Description TUBING - PRODUCTION		Set Depth / EOT (ftKB) 7,503.3		Run Date 9/25/2015		Wellbore OH		
Item Des		Icon	Top (ftKB)	Btm (ftKB)	Len (ft)	Jts	OD (in)	ID (in)
Tubing			0.0	7,359.3	7,359.29	228	2 7/8	2.441
Anchor/catcher			7,359.3	7,362.0	2.75	1	5 1/2	
TK-99			7,362.0	7,394.7	32.63	1	2 7/8	
Pump Seating Nipple			7,394.7	7,395.8	1.10	1	2 1/2	
Combo MH-D2702-G			7,395.8	7,413.0	17.24	1	2 7/8	
Tubing			7,413.0	7,502.6	89.62	3	2 7/8	2.441
Bull Plug			7,502.6	7,503.3	0.70	1	2 7/8	

## Rod String: ROD STRING on 9/25/2015 15:30

Run Date 9/25/2015 15:30	Rod Description ROD STRING					Set Depth (ftKB) 7,406.0
Item Des	Icon	Top (ftKB)	Btm (ftKB)	Jts	Len (ft)	OD (in)
Polished Rod		0.0	26.0	1	26.00	1 1/2
Sucker Rod Sub/FSSM Cplg		26.0	28.0	1	2.00	3/4
Sucker Rod/FSSM Cplgs		28.0	7,178.0	286	7,150.00	3/4
Sinker Bar		7,178.0	7,378.0	8	200.00	1 1/2
Rod Centralizer/3/4 Pins		7,378.0	7,382.0	1	4.00	1
Rod Pump/25-150-RHBC-24-4		7,382.0	7,406.0	1	24.00	1 1/2

## Other In Hole

OD (in)	Des	Top (ftKB)	Btm (ftKB)	ID (in)	Make	Model
4 3/4	BRIDGE PLUG - COMPOSITE SAND	7,600.0	7,602.0			PACKER
		7,536.0	7,600.0			

## Perforation Intervals

Date	Top (ftKB)	Btm (ftKB)	Linked Zone	Conveyance Method	Wellbore	Current Status
8/31/2015 13:00	7,436.0	7,614.0	CISCO, OH	WIRELINE	OH	OPEN (7,436.0 - 7,442.0 ftKB)
3/16/2005 00:00	8,923.0	9,142.0	DEVONIAN, OH		OH	INACTIVE - SQUEEZED

## Job: PROD MAINT - &lt;jobtyp&gt; - 7/16/2001 06:00

Job Category PROD MAINT		Primary Job Type		Secondary Job Type	
Job Start Date 7/16/2001	Job End Date 7/17/2001	Job Spud Date	WBS Number Non AFENA	Total WBS + Sup Amount (Cost)	
Contractor/Rig		Rig #		Rig Type	
POOL WELL SERVICE		1255			



## Well Chronology with Components - All Jobs - NEW

Sub-Division DELAWARE BASIN		County CRANE		Field Name UNIVERSITY WADDELL		Region CRANE		State/Province TX						
Surface Legal Location			API/UWI 4210330828		Latitude (°) 31° 31' 34.46" N		Longitude (°) 102° 28' 9.129" W		Ground Elev M... 2,662.00		Orig KB Elev (ft) 13.00		Tubing Head Elevation (ft) 0.00	
Job Phase			Actual Dur (days)		PI Cum Days ML (days)		Actual Phase Field Est (Cost)		Planned Likely Phase Cost (Cost)			Cost Var ML (Cost)		

Report # 1					
Report Start Date 7/16/2001 06:00		Report End Date 7/17/2001 06:00	Daily Cost (Cost) \$7,035	Cum Field Est To Date (Cost) \$7,035	End Depth (ftKB) 0.0
Start Time	End Time	Description			
06:00	06:00	7/17/01. MIRU. Long stroked & would not pump right. L/D Polish rod. Work to unseat pump. Rod elevator broke in half & dropped rods. PU 1 - 1" rod & RIH. Screwed into fish. Unseat pump L/D 1 -1" rod. RU Parafin washer. POOH w/70 - 1" X3D rods, 105 - 7/8" X3D rods, 160 3/4" N-97 rods & 2 1/2x 1 1/2 x 24 pump. SDFN. 7/18/01. C/O pump, 1 - 1 1/2 WB(bent), 1 - 3/4" rod(bent) & 10 7/8" FHSM cplgs & RIH same as above. Load & Test. RDMO.			
		Rod Detail Rod correction 12'			
		1 1/2 x 26' Polish rod in hole 18' 30			
		4- 1" X3D pony rods 4+6+6+6= 22 52			
		70- 1" X3D rods 1750 1802			
		105-7/8" X3D rods 2625 4427			
		160- 3/4" N-97 rods 4000 8427			
		24- 1 1/2" WB's 600 9027			
		3/4"Cent sub 4 9031			
		25-150 RHBM 24-6 24 9055			

Job: PROD MAINT - RESTORE PROD-ROD PUMP - 12/5/2004 07:30						
Job Category PROD MAINT			Primary Job Type RESTORE PROD-ROD PUMP		Secondary Job Type ROD PUMP REPAIR	
Job Start Date 12/5/2004		Job End Date 12/5/2004		Job Spud Date		WBS Number 063852NA
Total WBS + Sup Amount (Cost)						
Contractor/Rig			Rig #		Rig Type	
POOL COMPANY			POOL WELL SERVICE 1267			
Job Phase		Actual Dur (days)	PI Cum Days ML (days)	Actual Phase Field Est (Cost)	Planned Likely Phase Cost (Cost)	Cost Var ML (Cost)

Report # 1						
Report Start Date 12/5/2004 07:30		Report End Date 12/5/2004 17:30		Daily Cost (Cost) \$4,760	Cum Field Est To Date (Cost) \$4,760	End Depth (ftKB) 0.0
Start Time	End Time	Description				
07:30	17:30	12/3/2004. MIRU. ND WELLHEAD. POOH 1- 1 1/2 X 26 PR, 4- 1" PONIES, 70- 1" X3D RODS, 105- 7/8 X3D RODS, 160- 3/4 N-97 RODS, 24- 1 1/2 WB'S, 1- 3/4 CENT. SUB, 1- 25- 150 RHBM. SWIFN. 12/4/2004. RIH W/ 1- 25-150 RHBM, 1- 3/4 CENT. SUB, 24- 1 1/2 WB'S, 160- 3/4 N-97 RODS, 105- 7/8 X3D, 70- 1" X3D, 4- 1" X3D PONIES, 1- 1 1/2 X 26 PR. HUNG WELL ON, LOADED WELL, PUT WELL ON PROD. RDMO. NOTE ( RODS MODEL ARE 72,73 ) THIS IS FINAL REPORT.				

Job: PROD MAINT - CHEMICAL TREATMENT - 2/9/2005 07:30						
Job Category PROD MAINT		Primary Job Type CHEMICAL TREATMENT			Secondary Job Type CHEMICAL TREATMENT	
Job Start Date 2/9/2005	Job End Date 2/11/2005		Job Spud Date	WBS Number 063852NONAFE	Total WBS + Sup Amount (Cost) \$2,600	
Contractor/Rig		Rig #			Rig Type	
Job Phase	Actual Dur (days)	PI Cum Days ML (days)	Actual Phase Field Est (Cost)	Planned Likely Phase Cost (Cost)	Cost Var ML (Cost)	

Report # 1					
Report Start Date 2/9/2005 07:30		Report End Date 2/10/2005 07:30	Daily Cost (Cost)	Cum Field Est To Date (Cost)	End Depth (ftKB) 0.0
Start Time	End Time	Description			
07:30	07:30	MIRU PUMP TRK. PUMP DOWN CSG W/ 3 DRUMS XYLENE AND 2 DRUMS T-164. PUMP 2 BBLS WTR TO FLUSH LINES. PUT WELL ON CIRCULATION.			

<b>Report # 2</b>						
Report Start Date 2/10/2005 07:30	Report End Date 2/11/2005 07:30	Daily Cost (Cost) \$2,525	Cum Field Est To Date (Cost) \$2,525	End Depth (ftKB) 0.0		



## Well Chronology with Components - All Jobs - NEW

Sub-Division DELAWARE BASIN		County CRANE		Field Name UNIVERSITY WADDELL		Region CRANE		State/Province TX					
Surface Legal Location		API/UWI 4210330828		Latitude (°) 31° 31' 34.46" N		Longitude (°) 102° 28' 9.129" W		Ground Elev M... 2,662.00		Orig KB Elev (ft) 13.00		Tubing Head Elevation (ft) 0.00	
Start Time	End Time	Description											
07:30	07:30	TAKE WELL OFF CIRCULATION. RETURN WELL TO PRODUCTION.  BEFORE TEST - 1/3/2005 24 HRS. 24 BOPD, 16 MCF, 80 BWPD 60 - TBG, 25 - CSG, 7.0 - SPM, 130 - SL, 1.5 - PUMP SIZE, 60% - RT, 9041' - FL  AFTER TEST - 2/13/2005 24 HRS. 28 BOPD, 17 MCF, 83 BWPD 100 - TBG, 26 - CSG, 7.0 - SPM, 130 - SL, 1.5 - PUMP SIZE, 69% - RT, 9072' - FL.											
<b>Job: PROD MAINT - RESTORE PROD-ROD PUMP - 3/14/2005 12:30</b>													
Job Category PROD MAINT				Primary Job Type RESTORE PROD-ROD PUMP				Secondary Job Type ROD REPAIR					
Job Start Date 3/14/2005		Job End Date 3/15/2005		Job Spud Date		WBS Number 63852NONAFE		Total WBS + Sup Amount (Cost) \$5,514					
Contractor/Rig				Rig #				Rig Type					
POOL COMPANY				POOL WELL SERVICE 325				PULLING UNIT					
Job Phase		Actual Dur (days)		PI Cum Days ML (days)		Actual Phase Field Est (Cost)		Planned Likely Phase Cost (Cost)		Cost Var ML (Cost)			
<b>Report # 1</b>													
Report Start Date 3/14/2005 12:30		Report End Date 3/14/2005 17:30		Daily Cost (Cost) \$2,557		Cum Field Est To Date (Cost) \$2,557		End Depth (ftKB) 0.0					
Start Time	End Time	Description											
12:30	17:30	MIRU. ND WELLHEAD. POOH W/ 1 - 1 1/2 X 26 PR, 4 - 1 " PONIES, 70 - 1" X 3D RODS, 50 - 7/8 3D RODS. FOUND PIN BREAK ON 120 RFS. (7/8). PU FISHING TOOL, MADE TWO TRIPS TO CATCH FISH. POOH W/ FISH AND 55 - 7/8 X 3D, 160 - 3/4 X 3D, 24 - 1 1/2 WB'S. 1 - 3/4 CENT. SUB, 1 2 1/2 X 1 1/2 X 24 PUMP. SWIFN.											
<b>Report # 2</b>													
Report Start Date 3/15/2005 07:30		Report End Date 3/15/2005 12:30		Daily Cost (Cost) \$2,957		Cum Field Est To Date (Cost) \$5,514		End Depth (ftKB) 0.0					
Start Time	End Time	Description											
07:30	12:30	RIH W/ 1 - 2 1/2 X 1 1/2 X 24 PUMP, 1 - 3/4 CENT. SUB, 24 - 1 1/2 WB'S, 160 - 3/4 X 3D RODS, 105 - 7/8 X 3D RODS, 70 - 1" X 3D RODS, 4 - 1" PONIES, 1 - 1 1/2 X 30 PR. HUNG WELL ON, LOADED WELL. PUT WELL ON PRODUCTION. RDMO.  FINAL REPORT!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!											
<b>Job: PROD MAINT - RESTORE PROD-ROD PUMP - 3/28/2005 07:30</b>													
Job Category PROD MAINT				Primary Job Type RESTORE PROD-ROD PUMP				Secondary Job Type ROD PUMP REPAIR					
Job Start Date 3/28/2005		Job End Date 3/28/2005		Job Spud Date		WBS Number 63852NONAFE		Total WBS + Sup Amount (Cost) \$3,344					
Contractor/Rig				Rig #				Rig Type					
POOL COMPANY				POOL WELL SERVICE 159				PULLING UNIT					
Job Phase		Actual Dur (days)		PI Cum Days ML (days)		Actual Phase Field Est (Cost)		Planned Likely Phase Cost (Cost)		Cost Var ML (Cost)			
<b>Report # 1</b>													
Report Start Date 3/28/2005 07:30		Report End Date 3/28/2005 17:00		Daily Cost (Cost) \$3,344		Cum Field Est To Date (Cost) \$3,344		End Depth (ftKB) 0.0					
Start Time	End Time	Description											
07:30	17:00	MIRU. RU PUMP TRUCK. LONG STROKED WELL, PUMPED DOWN CASING. RE-SPACED RODS, LONG STROKED WELL, GOT WELL TO PUMP. RDMO.											
<b>Job: WORKOVER - RESTORE PROD-ROD PUMP - 3/31/2005 07:00</b>													
Job Category WORKOVER				Primary Job Type RESTORE PROD-ROD PUMP				Secondary Job Type ROD PUMP REPAIR					
Job Start Date 3/31/2005		Job End Date 4/24/2005		Job Spud Date		WBS Number 119718		Total WBS + Sup Amount (Cost) \$182,850					
Contractor/Rig				Rig #				Rig Type					
POOL COMPANY				POOL WELL SERVICE 159				PULLING UNIT					
Job Phase		Actual Dur (days)		PI Cum Days ML (days)		Actual Phase Field Est (Cost)		Planned Likely Phase Cost (Cost)		Cost Var ML (Cost)			
<b>Report # 1</b>													
Report Start Date 3/31/2005 07:00		Report End Date 3/31/2005 17:00		Daily Cost (Cost) \$4,772		Cum Field Est To Date (Cost) \$4,772		End Depth (ftKB) 0.0					



## Well Chronology with Components - All Jobs - NEW

Sub-Division DELAWARE BASIN		County CRANE		Field Name UNIVERSITY WADDELL		Region CRANE		State/Province TX			
Surface Legal Location			API/UWI 4210330828		Latitude (°) 31° 31' 34.46" N		Longitude (°) 102° 28' 9.129" W		Ground Elev M... 2,662.00	Orig KB Elev (ft) 13.00	Tubing Head Elevation (ft) 0.00
Start Time	End Time	Description									
07:00	17:00	POOH W/ 60 - 4/8 X 3D RODS, 160 - 3 /4 N-97 RODS, 24 - 1 1/2 WB'S, 1 - 3/4 CENT SUB, 1 - 2 1/2X 1 1/2 X 24 PUMP. R&R PUMP, FOUND NOTHING IN PUMP. RU BOP, TRY TO RELEASE 5 1/2 TAC. MOVED PIPE 10 FT UP AND DOWN WITH 33 INCH STRETCH. PULLED TO 80,000. STRING WEIGH WAS 60,000. TRY TO TURN PIPE, PIPE WOULD TROQUE UP, IF WE TURN 10 ROUNDS, GOT ALL BACK, IF TURN 5 ROUNDS, GOT ALL BACK. TRY TO TURN AT 3 DIFFERENT SPOT WITH IN THE 10 FT. SPACE, GOT THE SAME THING. RU PUMP TRUCK. TOOK 10 BBLs FRESH SOAP WATER TO LOAD AT 150 PSI. PUMPED 50 MORE BBLs AT 1 BBL TO 1/4 BBL AT 200 TO 500 PSI. RD TRUCK. SDFN.									
Report # 2											
Report Start Date 4/1/2005 07:00			Report End Date 4/1/2005 17:00			Daily Cost (Cost) \$6,516			Cum Field Est To Date (Cost) \$11,288		End Depth (ftKB) 0.0
Start Time	End Time	Description									
07:00	17:00	RU PUMP TRUCK. PUMPED 6 BBLs TO LOAD CASING. WATER STARTED TO RUN OUT AROUND WELLHEAD. RD TRUCK. WORK TO RELEASE TAC, PULLED 50,60,70 TURN 7 ROUND, GOT EVERYTHING BACK. RU WIRELINE TRUCK. COULD NOT GET DOWN WITH WIRELINE. MADE 2 RUNS WITH PARAFFIN KNIFE, CUT PARAFFIN FROM 2600 TO 5000. RIH W/ WIRELINE FREEPOINT AT 7000' 100% FREE, 8000; 80% FREE, 8430,8411,8314 100% STRUCK. POOH W/ WIRELIN. WILL CUT WITH CHEMICAL CUTTER AT 8266'. TAC SET @ 8437-8440. WE HAVE 151' OF PIPE STUCK. WE WILL HAVE TO WASH OVER. RELEASE WIRELINE TRUCK. SDFN.									
Report # 3											
Report Start Date 4/2/2005 07:30			Report End Date 4/2/2005 17:00			Daily Cost (Cost) \$3,386			Cum Field Est To Date (Cost) \$14,674		End Depth (ftKB) 0.0
Start Time	End Time	Description									
07:30	17:00	DUG OUT AROUND WELL HEAD DOWN TO BRADEN HEAD. RU PUMP TRUCK. PUMPED 12 BBLs, WATER STARTED COMIN GUP AROUND WELLHEAD. HOLE IN CASING. RD PUMP TRUCK. POOH W/ RODS LAYING DOWN. SDFN.									
Report # 4											
Report Start Date 4/3/2005 07:30			Report End Date 4/3/2005 19:30			Daily Cost (Cost) \$8,106			Cum Field Est To Date (Cost) \$22,780		End Depth (ftKB) 0.0
Start Time	End Time	Description									
07:30	19:30	FINISHED LAYING DOWN RODS. RU WIRELINE TRUCK, DROP STANDING VALVE DOWN TUBING. PUSHED DOWN W/ SWAB LINE. RIH W/ WIRELINE, FREEPOINT TUBING AT 8250 TO 8282, 100% FREE. POOH W/ FREEPOINT. RIH W/ CHEMICAL CUTTER. CUT PIPE AT 8265'. STRING WEIGH WAS 47,000, POOH LAYING DOWN 160 - 2 7/8 J-55 TUBING. TALLY TUBING OUT OF HOLE. SDFN.									
Report # 5											
Report Start Date 4/4/2005 07:30			Report End Date 4/4/2005 17:30			Daily Cost (Cost) \$21,050			Cum Field Est To Date (Cost) \$43,830		End Depth (ftKB) 0.0
Start Time	End Time	Description									
07:30	17:30	LAYED DOWN 103 - 2 7/8 J-55 TUBING. TOP OF FISH AT 8243' FROM SURFACE. RU BAKER-HUGHES WIRELINE TRUCK. RIH W/ 4.6 GAUGE RING TO 8220'. POOH W/ GAUGE RIG. RIH TO DO A MVRT LOG FROM 8220' TO SURFACE. LOOK LIKE BAD CASING. STARTED AROUND 200' TO SURFACE BY LOG. RD BAKER-HUGHES. SDFN.									
Report # 6											
Report Start Date 4/5/2005 07:30			Report End Date 4/5/2005 17:30			Daily Cost (Cost) \$6,217			Cum Field Est To Date (Cost) \$50,047		End Depth (ftKB) 0.0
Start Time	End Time	Description									
07:30	17:30	RIH W/ 5 1/2 TS-RBP, SET AT 1330'. SET 5 1/2 32-A PACKER AT 1306'. TESTED TOOL TO 500 PSI. TOOL TESTED GOOD. PU PACKER TO 1180', TESTED GOOD TO 500 PSI. PU PACKER TO 547' TESTED GOOD TO 500 PSI. PU PACKER TO 236', DID NOT TEST GOOD. BACKSIDE DID NOT TEST GOOD. HOLES IN CASING ARE FROM 205' - 267'. TOOK 12 BBLs TO GET WATER TO COME AROUND WELLHEAD. PUMP 1/2 BBLs AT 900 PSI INTO HOLES. POOH W/ PACKER. DROP 2 SACKS OF SAND ON TOP OF RBP. POOH W. TUBING. UN-BOLTED WELLHEAD. SDFN.									
Report # 7											
Report Start Date 4/6/2005 07:30			Report End Date 4/6/2005 17:30			Daily Cost (Cost) \$5,976			Cum Field Est To Date (Cost) \$56,023		End Depth (ftKB) 0.0
Start Time	End Time	Description									
07:30	17:30	LAYED DOWN 34 - 2 7/8 J-55 TUBING. RD BOP. PULLED WELLHEAD OFF. WELDED A 9 FT SUB OF 5 1/2 TO TOP OF CASING. PULLED FROM 70,000 TO 120,000 TO GET SLIPS FREE, FAIL TO GET SLIP FREE. RU CRAFT WIRELINE TRUCK. WRAP WELLHEAD 4 TIMES W/ PRIMER CORD, SHOT CORD OFF, FAIL TO GET SLIPS TO MOVE. WRAP 7 TIMES AROUND WELLHEAD W/ PRIMER CORD. SHOT CORD OFF, FAIL TO GET SLIPS TO MOVE. SDFN.									
Report # 8											
Report Start Date 4/7/2005 07:30			Report End Date 4/7/2005 19:30			Daily Cost (Cost) \$17,752			Cum Field Est To Date (Cost) \$73,775		End Depth (ftKB) 0.0
Start Time	End Time	Description									
07:30	19:30	RU CASING JACKS. PULLED ON CASING TO 140,000, CASING MOVED 1 1/2 INCH. SLIPS RING DID NOT MOVE. WELDED STRAP TO SLIP RING, PULLED 169,000 ON CASING, CASING MOVED ABOUT 1/4 INCH, BUT RING DID NOT MOVE. HEATING WELLHEAD UP, SLIP RING CAME FREE. PULLED 169,500' ON CASING, SLIP WOULD NOT MOVE. HEATED WELLHEAD AGAIN. SLIPS CAME FREE, AND SLIP BOWL CAME FREE TOO. RU BOP. RU CASING TONGS. RU CRAFT WIRELINE. FREEPOING CASING AT 135 AND 363, 100 FREE. STRING SHOT CASING COLLAR AT 323'. CASING BACK OFF LAYED DOWN 9 - 5 1/2 K-55 CASING. SDFN.									



## Well Chronology with Components - All Jobs - NEW

Sub-Division DELAWARE BASIN	County CRANE	Field Name UNIVERSITY WADDELL	Region CRANE	State/Province TX		
Surface Legal Location	API/UWI 4210330828	Latitude (°) 31° 31' 34.46" N	Longitude (°) 102° 28' 9.129" W	Ground Elev M... 2,662.00	Orig KB Elev (ft) 13.00	Tubing Head Elevation (ft) 0.00

Report # 9					
Report Start Date 4/10/2005 07:30		Report End Date 4/10/2005 19:30	Daily Cost (Cost) \$17,727	Cum Field Est To Date (Cost) \$91,502	End Depth (ftKB) 0.0
Start Time	End Time	Description			
07:30	19:30	UNLOADED 5 1/2 CASING. RIH W/ 7 - 5 1/2 15.5# K-55 CASING, 1 - 18' 5 1/2 15.5# K-55 CASING. RU PUMP TRUCK, PUMPED 25 BBLS PACKER FLUID AROUND CASING. SCREWED INTO OLD CASING. TESTED CASING TO 500 PSI. TESTED GOOD. PULLED 40,000 ON CASING, SET SLIPS, MADE CUTOFF, REPLACED SLIP BOWL AND RING. NU WELLHEAD. RU BOP. SDFN.			

Report # 10					
Report Start Date 4/11/2005 07:30		Report End Date 4/11/2005 19:30	Daily Cost (Cost) \$9,531	Cum Field Est To Date (Cost) \$101,033	End Depth (ftKB) 0.0
Start Time	End Time	Description			
07:30	19:30	RIH W/ 43 - 2 7/8 L-80 WS. WASH SAND OFF TOP OF 5 1/2 RBP. RELEASE RBP. POOH W/ RBP 43 - 2 7/8 L-80 WS. PU AND RIH W/ 1 - 4 3/4 SHOE, 6 - 4 1/2 WASH PIPE, 6 - 3 1/2 DRILL COLLARS, 1 - 3 1/2 TOP BISHING, 1 - X-OVER, 254 - 2 7/8 L-80 WS. LEFT WASH PIPE HANGING AT 8195'. SDFN.			

Report # 11					
Report Start Date 4/12/2005 07:30		Report End Date 4/12/2005 19:30	Daily Cost (Cost) \$7,579	Cum Field Est To Date (Cost) \$108,612	End Depth (ftKB) 0.0
Start Time	End Time	Description			
07:30	19:30	PU SWIVEL. WELL STARTED FLOWING BACK. CIRCULATED HOLE W/ 2% KCL, PUMPED 40 BBLS. TAG FISH AT 8250'. TURN ON FISH FOR 2 HOURS, MADE 2 INCH W/ SHOE. POOH W/ 265 - 2 7/8 L-80 WS, 1 - X OVER, TOP BUSHING, 6 - 3 1/2 SRILL COLLARS, 1 - 3 1/2 JARS, 6 - 4 1/2 WASH PIPE AND 1 - 4 1/2 SHOE. SDFN.			
		WE HAD A CONVENTIONAL 4 3/4 SHOE W/ NOTCH COLLAR W/ 4 TEETH ON IT. WE GOT BACK RUBBER, SCALE, METAL FROM RETURNS. PIPE COULD BE PUSHED OVER TO ONE SIDE. WE ARE GOING BACK IN W/ 4 3/4 CUT RITE SHOE. CUT-RITE ON BOTTOM, SMOOTH ID ( 3 13/16).			

Report # 12						
Report Start Date 4/13/2005 07:30		Report End Date 4/13/2005 19:30		Daily Cost (Cost) \$8,292	Cum Field Est To Date (Cost) \$116,904	End Depth (ftKB) 0.0
Start Time	End Time	Description				
07:30	19:30	OPEN WELL UP AND RIH W/ 4 3/4 OD KUTRITE SHOE X SLICK ID, 6 JTS WP, TOP BUSHING JARS, DC'S, AND X-OVER ON 255 JTS TUBING. PU SWIVEL AND INSTALL STRIPPER ON JT 256. BREAK CIRCULATION AND TAG FISH @ 8235'. GOT OVER FISH AND WENT DOWN AND TAGGED @ 8250' WHERE WE LEFT IT THE DAY BEFORE. START MILLING @ 11:00 AM AND MADE 2' TO 8252'. AT 3:15 PM SHOE QUIT CUTTING. CIRCULATE WELLBORE, GETTING BACK LOTS OF METAL AND IRON SULFIDE. LD SWIVEL AND 2 JTS. POOH W/ 254 JTS X-OVER, DCS, JARS, TOP BUSHING AND 4 1/2 WP. SHOE WAS COMPLETELY WORN OUT ON BOTTOM AND ID WAS WORN OUT FROM 3 3/16 TO 3 7/8 ID. 4" UP INSIDE. SDFN.				
NOTE: GETTING ANOTHER SHOE BUILT THE SAME.						

Report # 13					
Report Start Date 4/14/2005 07:30		Report End Date 4/14/2005 17:00	Daily Cost (Cost) \$6,666	Cum Field Est To Date (Cost) \$123,570	End Depth (ftKB) 0.0
Start Time	End Time	Description			
07:30	17:00	OPEN WELL UP. RIH W/ 1 - 4 3/4 OD SMTHXSLICK ID, KUTRITE, WP, TOP BUSHING, JARS, DCS, AND X-OVER ON 255 JTS OF TUBING. PU SWIVEL AND STRIPPER ON THE 256 JT. BREAK CIRCULATION AND START WASHING DOWN. 11:00AM TAGGED FISH @ 8250'. WASH BACK TO 8252' @ 11:30 AM. AT 2:00 PM WASHED DOWN TO 8266.5'. SHOE WAS STICKING, COMING UP CAUSED BY FORMATION FALLING IN ON SHOE. CIRULCATION RETURNED. CONTAINED FORMATION AND LOTS OF METAL. PULLED 8000# OVER SEVERAL TIMES TO GET LOOSE. CIRCULATE HOLE CLEAN. LD SWIVEL AND POOH W/ 256 JTS, 6 - DCS, JARS, TOP BUSHING, WP AND SHOE. SHOE SHOWED SEVERE WEAR ON BOTTOM, LAID DOWN AND SDFN. PREPARING TO RUN 2 7/8 GR BUMPER BUB, X-OVER TUBING TO CATCH FISH AND RUN ANOTHER FREEPOINT.			

Report # 14					
Report Start Date 4/15/2005 07:30		Report End Date 4/15/2005 17:00	Daily Cost (Cost) \$8,551	Cum Field Est To Date (Cost) \$132,121	End Depth (ftKB) 0.0
Start Time	End Time	Description			
07:30	17:00	OPEN WELL UP AND RIH W/ 4 11/16' OS W/ 2 7/8 GR BUMPER SUB, X-OVER, AND 267 JTS OF 2 7/8 WORK STRING. PU AND RIH W/ 1 - 10' PUP, TAG AND CAUGHT FISH @ 8237'. STRING WEIGHT WAS 53000#. PULLED TO 65000# (12000# OVER) AND PARTED TUBING BELOW OS. RELEASED BAKER-ATLAS FROM STANDBY ON LOCATION. POOH W/ SAME AND RECOVERED 16.3' CUT OFF PIECE TUBING AND COLLAR THAT HAD BEEN MILLED INTO HALF PIN LOOKING UP. RIH W/ 22 - STD FOR KILL STRING. SDFN. PREPARING TO RUN ANOTHER SHOE W/ STABILIZER PADS ON WP ONLY.			

Report # 15					
Report Start Date 4/17/2005 07:30		Report End Date 4/17/2005 17:00	Daily Cost (Cost) \$6,162	Cum Field Est To Date (Cost) \$138,283	End Depth (ftKB) 0.0
Start Time	End Time	Description			
07:30	17:00	OPEN WELL UP, POOH W/ KILL STRING, CHANGE OUT BOP. RIH W/ SHOE 4 3/4" OD SMTH.X SLICK ID W/ 3 - STABILIZAER PADS, 2 - 4 1/2" WP, TOP BUSHING, JARS, 6 - DCS, AND X-OVER ON 259 JTS OF TUBING. PU SWIVEL ON 260TH JT AND STRIPPER. BREAK CIRCULATION AND START WASHING @ 11:30AM. GOT DOWN TO 8253' @ 11:45 AM. MILLED AND WASHED DOWN 7' TO 8260' AT 2:15 PM. SHOE QUIT CUTTING. TRIED UNTIL 3:00 PM. LD SWIVEL AND 1 JT. POOH W/ 260 JTS OF TUBING, X-OVER, 6 - DCS, JARS, TOP BUSHING, 2 - JTS WP AND SHOE. SHOE WAS SEVERLY WORN ON BOTTOM AND MARKED ON ID. RIH W/ 20 JTS KILL STRING. SDFN.			





## Well Chronology with Components - All Jobs - NEW

Sub-Division DELAWARE BASIN	County CRANE	Field Name UNIVERSITY WADDELL	Region CRANE	State/Province TX		
Surface Legal Location	API/UWI 4210330828	Latitude (°) 31° 31' 34.46" N	Longitude (°) 102° 28' 9.129" W	Ground Elev M... 2,662.00	Orig KB Elev (ft) 13.00	Tubing Head Elevation (ft) 0.00

## Report # 16

Report Start Date 4/18/2005 07:30	Report End Date 4/18/2005 17:00	Daily Cost (Cost) \$8,356	Cum Field Est To Date (Cost) \$146,639	End Depth (ftKB) 0.0
--------------------------------------	------------------------------------	------------------------------	---	-------------------------

Start Time	End Time	Description
07:30	17:00	POOH W/ 10 STANDS KILL STRING. RIH W/ 1 - 4 3/4 OD X SLICK ID W/ INSERTS, 2 JTS WP, TOP BUSHING, JARS, 6 - DCS, AND X-OVER ON 259 JTS OF TUBING. PU SWIVEL AND STRIPPER ON THE 260TH JT BREAK CIRCULATION @2:00 AND GO OVER THE TOP OF FISH @ 8253'. REAM FROM 8255' TO 8260' AT 12:45 PM. DIDN'T MAKE ANY NEW HOLE BUT MADE FROM 8259' TO 8260' 5 TIMES. SEEMS LIKE A SLIVER OF CASING PIPE IS WRAPPED AROUND 2 7/8" TUBING. LAID DOWN DWIVEL AND 1 JT. POOH W/ 259 JTS, X-OVER, 6 - DCS, JARS, TOP BUSHING, 2 - WP, AND SHOE. SHOW SLICKED OUT BAD ON INSIDE BOTTOM EDGE, HAD BAD SCRATCHES ON ID OF SHOE AND 1ST JT OF WP. LAID DOWN SHOE AND RIH W/ 18 JTS KILLS TRING. SDFN.

## Report # 17

Report Start Date 4/19/2005 07:30	Report End Date 4/19/2005 17:00	Daily Cost (Cost) \$8,819	Cum Field Est To Date (Cost) \$155,458	End Depth (ftKB) 0.0
--------------------------------------	------------------------------------	------------------------------	---	-------------------------

Start Time	End Time	Description
07:30	17:00	POOH W/ 18 - 2 7/8 N-80 WS FOR KILL STRING. RIH W/ 4 3/4 COX 3 11/16 RUFF D SHOE, 2 - 4 3/5 WASH PIPE, TOP BUSHING, 8 - 3 1/2 DC, X-OVER, 30 - 2 7/8 N-80 WS. POOH W/ SAME. RIH W/ GAUGE RING. RIH W/ CHEMICAL BUTTER, CUT TUBING AT 8368'. RD WIRELINE. POOH W/ 240 - 2 7/8 N-80 WS, LEFTED 20 - 2 7/8 N-80 WS, FOR KILL STRING. SDFN.

## Report # 18

Report Start Date 4/20/2005 07:30	Report End Date 4/20/2005 18:00	Daily Cost (Cost) \$8,869	Cum Field Est To Date (Cost) \$164,327	End Depth (ftKB) 0.0
--------------------------------------	------------------------------------	------------------------------	---	-------------------------

Start Time	End Time	Description
07:30	18:00	POOH W/ 2 7/8 KILL STRING, RIH W/ 4 11/16 OS W/ 3 1/16 CRABER, BUMPER SUB, JARS, 6 - DC ACCCELL JAR, XO, 261 - 2 7/8 L-80 WS, TAG AND CAUGHT FISH AT 8252, PULLED 10,000 OVER. PULL OUT FISH, DID THIS SEVERAL TIMES. POOH W/ 261 - 2 7/8 L-80 TUBING, XO, JARS, DC, BUMPER SUB AND OS. RIH W/ 4 5/8 OD W/ 3" GRABER, BUMPER, JARS, DC, 242 - 2 7/8 L-80 WS AND LEFT OS HANGING. SDFN

## Report # 19

Report Start Date 4/24/2005 07:30	Report End Date 4/24/2005 16:00	Daily Cost (Cost) \$7,100	Cum Field Est To Date (Cost) \$171,427	End Depth (ftKB) 0.0
--------------------------------------	------------------------------------	------------------------------	---	-------------------------

Start Time	End Time	Description
07:30	16:00	POOH LAYING DOWN 228 - 2 7/8 N-80 WS, 6 - 3 1/2 DRILL COLLARS, JARS, 6 - 4 1/2 WASH PIPE. BROKE ALL TOOLS DOWN. RD BOP. NU B1-ADAPTER. RDMO.  NOTE : TOP OF FISH AT 8252'. CHEMICAL CUT AT 8368'. LEFT 5 - 2 7/8 J-55 TUBING, 1 - 5 1/2 TAC, 22 - 2 7/8 J-55 TUBING, 1 - 2 7/8 SN, 1 - 2 7/8 MA W/ NC.  FINAL REPORT

## Job: WORKOVER - &lt;jobtyp&gt; - 7/3/2008 06:00

Job Category WORKOVER		Primary Job Type			Secondary Job Type OTHER WORK						
Job Start Date 7/3/2008		Job End Date 7/10/2008		Job Spud Date		WBS Number 142550		Total WBS + Sup Amount (Cost) \$400,000			
Contractor/Rig				Rig #				Rig Type			
KEY ENERGY				KEY 150				WORKOVER COMP			
Job Phase		Actual Dur (days)		Pl Cum Days ML (days)		Actual Phase Field Est (Cost)		Planned Likely Phase Cost (Cost)		Cost Var ML (Cost)	

## Report # 1

Report Start Date 7/3/2008 06:00	Report End Date 7/3/2008 18:00	Daily Cost (Cost) \$11,863	Cum Field Est To Date (Cost) \$11,863	End Depth (ftKB) 0.0
-------------------------------------	-----------------------------------	-------------------------------	--	-------------------------

Start Time	End Time	Description
06:00	18:00	Tailgate safety meeting about line of fire MI RU PU ND well NU BOP PU RIH w/ 168 jts 2 7/8 tub CWISD Monday IN AM RIH W/ TUB RU WIRE LINE RUN VIDEO

## Report # 2

Report Start Date 7/7/2008 06:00	Report End Date 7/7/2008 18:00	Daily Cost (Cost) \$21,175	Cum Field Est To Date (Cost) \$33,038	End Depth (ftKB) 0.0
-------------------------------------	-----------------------------------	-------------------------------	--	-------------------------

Start Time	End Time	Description
06:00	18:00	Tailgate safety meeting about stay focus Open well up PU RIH w/ 69 jts tagged up @ 8277 RU wire line pump 100 bbls water down tub RIH w/ DHV show tub slice & casing @ 8277 POH w/ wire line RD wire line POH w/ tub. RIH w/ pkr & plug on 100 jts 2 7/8 CWISD IN AM RIH TEST CASING

## Report # 3

Report Start Date 7/8/2008 06:00	Report End Date 7/8/2008 18:00	Daily Cost (Cost) \$13,372	Cum Field Est To Date (Cost) \$46,410	End Depth (ftKB) 0.0
-------------------------------------	-----------------------------------	-------------------------------	--	-------------------------



## Well Chronology with Components - All Jobs - NEW

Sub-Division DELAWARE BASIN		County CRANE		Field Name UNIVERSITY WADDELL		Region CRANE		State/Province TX		
Surface Legal Location		API/UWI 4210330828		Latitude (°) 31° 31' 34.46" N		Longitude (°) 102° 28' 9.129" W		Ground Elev M... 2,662.00	Orig KB Elev (ft) 13.00	Tubing Head Elevation (ft) 0.00
Start Time	End Time	Description								
06:00	18:00	Tailgate safety meeting about line of fire Open well up RIH w/ 158 jts set plug @ 8242 load & test casing to 500 PSI for 30 min OK POH w/ pkr & plug RIH W/ 5 1/2 CICR on 258 jts 2 7/8 CWISD IN AM SET CICR & SQZ.								

Report # 4					
Report Start Date 7/9/2008 06:00		Report End Date 7/9/2008 16:00	Daily Cost (Cost) \$13,880	Cum Field Est To Date (Cost) \$60,290	End Depth (ftKB) 0.0
Start Time	End Time	Description			
06:00	16:00	Tailgate safety meeting about line of fire Open well up RU BJ pump 20 bbls water down tub. set CICR @ 8227' establish injection rate of 2 BPM @ 1500 PSI pump 10 bbls fresh water pump 100 sx Class "H" neat cmt displace w/ 46 BBLs left 1 1/2 bbl cmt on top of CICR ISP 1650 RD BJ POH lay down tub 200 jts 2 7/8 CWISD IN AM LAY DOWN TUB ND BOP NU WELL RD PU			

Report # 5					
Report Start Date 7/10/2008 06:00		Report End Date 7/10/2008 06:00	Daily Cost (Cost) \$9,188	Cum Field Est To Date (Cost) \$69,478	End Depth (ftKB) 0.0
Start Time	End Time	Description			
06:00	06:00	Tailgate safety meeting about pinch points Open well up POH lay down 98 jts 2 7/8 L-80 tub ND BOP NU well RD PU Move to HE Adams A 10			

**Job: RECOMPLETION - COMPLETION - 8/20/2015 08:03**

Job Category RECOMPLETION		Primary Job Type COMPLETION			Secondary Job Type ADD PAY						
Job Start Date 8/20/2015		Job End Date 9/26/2015		Job Spud Date		WBS Number YY-114956.13.REC		Total WBS + Sup Amount (Cost) \$292,500			
Contractor/Rig			Rig #				Rig Type				
CAPITOL			4				WO/COMP/PU-ONSHORE				
CAPITOL			4				WO/COMP/PU-ONSHORE				
Job Phase		Actual Dur (days)		Pl Cum Days ML (days)		Actual Phase Field Est (Cost)		Planned Likely Phase Cost (Cost)		Cost Var ML (Cost)	

Report # 1					
Report Start Date 8/20/2015 08:03		Report End Date 8/21/2015 08:03	Daily Cost (Cost) \$2,900	Cum Field Est To Date (Cost) \$2,900	End Depth (ftKB) 0.0
Start Time	End Time	Description			
08:03	16:03	AOL. HELD PJSM. CLEARED BRUSH FROM LOCATION. JOB COMPLETED			

Report # 2					
Report Start Date 8/25/2015 06:00		Report End Date 8/26/2015 06:00	Daily Cost (Cost) \$1,780	Cum Field Est To Date (Cost) \$4,680	End Depth (ftKB) 0.0
Start Time	End Time	Description			
06:00	09:00	START SETTING FRAC TANKS			

Report # 3					
Report Start Date 8/31/2015 06:00		Report End Date 9/1/2015 06:00	Daily Cost (Cost) \$1,780	Cum Field Est To Date (Cost) \$6,460	End Depth (ftKB) 0.0
Start Time	End Time	Description			
06:00	01:00	MIRU, WIRELINE, RIH, TAG @ 7602' WIRH JUNK BASKET & GUAGE RING, POOH, RIH PERFORATE CISCO-CANYON ZONE, POOH, RIH W/ WIRELINE, RUN CBL FROM 7602' TO 900' FROM SURFACE			

Report # 4					
Report Start Date 9/1/2015 06:00		Report End Date 9/2/2015 06:00	Daily Cost (Cost) \$14,780	Cum Field Est To Date (Cost) \$21,240	End Depth (ftKB) 0.0
Start Time	End Time	Description			
06:00	13:00	RIH, SET CBP @ 7602' RDMOL			

Report # 5				
Report Start Date 9/9/2015 06:00	Report End Date 9/10/2015 06:00	Daily Cost (Cost) \$11,330	Cum Field Est To Date (Cost) \$32,570	End Depth (ftKB) 0.0

06:00	07:00	CREW TRAVEL TO LOC			
07:00	08:00	ROAD RIG FROM PJ-LEA TO TEXAS HH 10			
08:00	08:30	HSM ON RIGGING UP			
08:30	10:30	MIRU, WSU			
10:30	12:30	ND/FRAC VALVE, NU/BOP			
12:30	13:30	RACK & TALLY 3 1/2 WS			
13:30	15:30	PU/ PKR & 1-JT, PKR WOULD NOT GO, WAIT ON DIFFERENT PKR			
15:30	16:00	RIH W/ PKR & 3-JTS STARTED LIGHTNING			
16:00	17:30	WAIT ON WEATHER TO PASS. SECURE WELL. SDON			
17:30	18:30	CREW TRAVEL TO TOWN			



## Well Chronology with Components - All Jobs - NEW

Sub-Division DELAWARE BASIN	County CRANE	Field Name UNIVERSITY WADDELL	Region CRANE	State/Province TX		
Surface Legal Location	API/UWI 4210330828	Latitude (°) 31° 31' 34.46" N	Longitude (°) 102° 28' 9.129" W	Ground Elev M... 2,662.00	Orig KB Elev (ft) 13.00	Tubing Head Elevation (ft) 0.00

Report # 6					
Report Start Date 9/10/2015 06:00		Report End Date 9/11/2015 06:00		Daily Cost (Cost) \$16,730	Cum Field Est To Date (Cost) \$49,300
				End Depth (ftKB) 0.0	
Start Time	End Time	Description			
06:00	07:00	CREW TRAVEL TO LOC			
07:00	07:30	HSM ON TESTING TBG IN HOLE			
07:30	07:30	PU/RIH W/3 1/2 FRAC STRING, HYDROTEST TO 9000#, SET PKR @ 7334' / 228-JTS/ WITH 26-PTS COMPRESSION, NU/ FRAC VALVE			
07:30	08:30	RDMO/ STEALTH & HYDRACAT			
08:30	09:30	HOOK UP PUMP TRUCK, TEST CSG TO 500-PSI, HELD GOOD, UNHOOK PUMP TRUCK. SECURE WELL.SDON			
		OART: RDMOL			
09:30	10:30	CREW TRAVEL TO TOWN			

Report # 7				
Report Start Date 9/11/2015 06:00		Report End Date 9/12/2015 06:00	Daily Cost (Cost) \$15,030	Cum Field Est To Date (Cost) \$64,330
		End Depth (ftKB) 0.0		
Start Time	End Time	Description		
06:00	07:00	CREW TRAVEL TO LOC		
07:00	07:30	HSM ON RIGGING DOWN		
07:30	09:30	RDMOL		

Report # 8					
Report Start Date 9/12/2015 06:00		Report End Date 9/13/2015 06:00		Daily Cost (Cost) \$5,380	Cum Field Est To Date (Cost) \$69,710
				End Depth (ftKB) 0.0	
Start Time	End Time	Description			
06:00	15:00	WAIT ON FTS TO RIG UP, NO SAND			

Report # 9				
Report Start Date 9/14/2015 06:00		Report End Date 9/15/2015 06:00	Daily Cost (Cost) \$66,480	Cum Field Est To Date (Cost) \$136,190
			End Depth (ftKB) 0.0	
Start Time	End Time	Description		
06:00	09:30	FRAC WELL, BRK DN @ 5486-PSI, PUMP 95-BBLS 15% HCL, 357-BBLS 15# LINEAR GEL, 357-BBLS .25# 20/40 WHITE, 357-BBLS .50# 20/40 WHITE, 357-BBLS .75# 20/40 WHITE, 381-BBLS 1# 20/40 WHITE, 357-BBLS 1.50# 20/40 WHITE, 429-BBLS 2# 20/40 WHITE, 381-BBLS 3# 20/40 WHITE, FLUSH W/ 65-BBLS FW.  BRK DN--5486-PSI  AVG PSI--6211 MIN PSI--5118 MAX PSI--7016  AVG RATE--30-BPM MIN RATE--29-BPM MAX RATE--30.5 BPM  ISDP--3735  5-MIN--3267-PSI 10-MIN--3122-PSI 15-MIN--3064-PSI-----TOTAL LOAD TO RECOVER---3099-BBLS		
09:30	14:00	9/1		

Report # 10				
Report Start Date 9/21/2015 06:00		Report End Date 9/22/2015 06:00	Daily Cost (Cost) \$10,540	Cum Field Est To Date (Cost) \$146,730
				End Depth (ftKB) 0.0
Start Time	End Time	Description		
06:00	07:00	CREW TRAVEL TO LOC		
07:00	08:00	ROAD RIG FROM PJ-LEA TO TEXAS HH 10		
08:00	08:30	HSM ON RIGGING UP		
08:30	12:00	WAIT AND LET WEATHERFORD CRANE PUT WELL ON DOWN STROKE		
12:00	14:00	MIRU/ WSU, TBG HAS 2500-PSI ON IT		
14:00	17:00	MIRU/ ENERGES FLOW BACK CREW, START OUT ON 20/64, 2200-PSI		
17:00	18:00	CREW TRAVEL TO TOWN		

Report # 11					
Report Start Date 9/22/2015 06:00		Report End Date 9/23/2015 06:00	Daily Cost (Cost) \$10,540	Cum Field Est To Date (Cost) \$157,270	End Depth (ftKB) 0.0
Start Time	End Time	Description			
06:00	07:00	CREW TRAVEL TO LOC			





## Well Chronology with Components - All Jobs - NEW

Sub-Division DELAWARE BASIN	County CRANE	Field Name UNIVERSITY WADDELL	Region CRANE	State/Province TX
--------------------------------	-----------------	----------------------------------	-----------------	----------------------

Surface Legal Location	API/UWI 4210330828	Latitude (°) 31° 31' 34.46" N	Longitude (°) 102° 28' 9.129" W	Ground Elev M... 2,662.00	Orig KB Elev (ft) 13.00	Tubing Head Elevation (ft) 0.00
------------------------	-----------------------	----------------------------------	------------------------------------	------------------------------	----------------------------	------------------------------------

Start Time	End Time	Description
07:00	07:30	HSM ON ND/ FRAC STACK
07:30	08:00	HOOK UP PUMP TRUCK, PUMP 15-BBLS BW DOWN TBG, BUILT UP TO 1200-PSI, BLEED TBG DN
08:00	11:30	HAD TROUBLE UNSETTING PKR, FINALLY CAME LOOSE
11:30	17:00	POOH, LD/ 228-JTS 3 1/2 WS & PKR. SECURE WELL. SDON
17:00	18:00	CREW TRAVEL TO TOWN

## Report # 12

Report Start Date 9/23/2015 06:00	Report End Date 9/24/2015 06:00	Daily Cost (Cost) \$11,440	Cum Field Est To Date (Cost) \$168,710	End Depth (ftKB) 0.0
--------------------------------------	------------------------------------	-------------------------------	---	-------------------------

Start Time	End Time	Description
06:00	07:00	CREW TRAVEL TO LOC
07:00	07:30	HSM ON PU/ TBG
07:30	13:00	WAIT ON WS, GO TO SAFETY MEETING IN MIDLAND
13:00	14:00	CREW TRAVEL TO TOWN

## Report # 13

Report Start Date 9/24/2015 06:00	Report End Date 9/25/2015 06:00	Daily Cost (Cost) \$68,640	Cum Field Est To Date (Cost) \$237,350	End Depth (ftKB) 0.0
--------------------------------------	------------------------------------	-------------------------------	---	-------------------------

Start Time	End Time	Description
06:00	07:00	CREW TRAVEL TO LOC
07:00	07:30	HSM ON PU/ TBG
07:30	13:00	TBG TESTER GOT TRUCK STUCK, WAIT ON BACKHOE TO PULL TESTER OUT
13:00	14:00	MIRU/TBG TESTER
14:00	16:00	PU/ RIH W/ BHA & 140-JTS TBG, HYDROTEST TO 6000# WHILE RIH. STORM HIT. SECURE WELL. SDON
16:00	17:00	RD/ TESTING BARS
17:00	18:00	CREW TRAVEL TO TOWN

## Report # 14

Report Start Date 9/25/2015 06:00	Report End Date 9/26/2015 06:00	Daily Cost (Cost) \$24,500	Cum Field Est To Date (Cost) \$261,850	End Depth (ftKB) 0.0
--------------------------------------	------------------------------------	-------------------------------	---	-------------------------

Start Time	End Time	Description
06:00	07:00	CREW TRAVEL TO LOC
07:00	07:30	HSM ON PU/TBG
07:30	08:30	PU/ RIH W/ 89-JTS TBG, HYDROTEST TO 6000# TAG @ 7536' LD/1-JT
08:30	09:30	RDMO/ STEALTH TBG TESTER
09:30	11:30	ND/BOP, SET TAC W/25- PTS TENSION, NU/ WELL HEAD. CH-OVER TO RUN RODS
11:30	14:30	REMOVE PROTECTORS, INSTALL COUPLINGS, PU/ RIH W/ PUMP, K-BARS & RODS, SPACE WELL OUT, SEAT PUMP, L&T TBG TO 500-PSI, HELD GOOD, LONG STROKE WELL. GOOD PUMP ACTION.
14:30	16:00	WAIT ON CRANE TO PUT PUMPING UNIT ON DOWN STROKE TO HANG WELL ON
16:00	17:00	HANG WELL ON.
17:00	19:00	RDMOL/ TOP
19:00	20:00	CREW TRAVEL TO TOWN