

J CLEO THOMPSON

AFE Amount

Dry Hole Cost

Spud Date	10/5/08	Well Name	Unlv.8-2 #4				AFE		Rpt Depth		355	
Todays Date	10/6/08	Field Name	Spraberry (Trend Area)				KB		16		GL Elev	3,003
Report Number	1	Last Casing	13 3/8	@	355	Next Planned Casing		8 5/8		@	5,200	
Supervisor	Johnnie R Holder	Rig Phone	432-213-3810		Background Gas		Conn Gas		0	Trip Gas	0	
Todays Footage	355	Lithology	Surface Rock & Redbed						Todays ROP		88.75	
Drig Hours	4	Planned Operations Or Comments Nipple up B.O.P.						Drilling Contractor				
Trip Hours	0-Jan							Robinson Drilling				
Other Hours	20							Rig #11				

From	To	HRS	ACTIVITY DESCRIPTION	BOTTOM HOLE ASSEMBLY				
6:00	8:00	2.00	Strap & Cal. DC's, Mix Spud Mud	BHA No	1	Depth In	40	
8:00	12:00	4.00	Drilled F/40" to 355' (Spud @ 8:00 AM 10/5/08)	Jts	Item	OD	ID	Length
12:00	13:00	1.00	Circ. & pump Sweep	1	Bit	17.500	1.75	
13:00	13:30	0.50	TOOH to run 13 3/8 casing	1	Bit Sub	8"	2.500	3.00
13:30	14:00	0.50	Rig up casing crew	10	DC's	8"	2.500	310.52
14:00	16:30	2.50	Run 13 3/8 casing	1	X-O sub	8"	2.500	3.00
16:30	17:00	0.50	Circ. & rig down casing crew					
17:00	18:15	1.25	Rig up Cementers & pump cement (Plug Down @ 6:15 PM 10/5/08)					
18:15	22:00	3.75	W.O.C.					
22:00	23:00	1.00	W.O.C.					
23:00	3:30	4.50	Cut off 13 3/8 casing & weld on 13 3/8 well head					
3:30	6:00	2.50	Nipple up B.O.P.					
			Casing Report: Run 9 joints 13 3/8, 48#, H-40, 8rd, ST&C csg., Length 355.99, w/Floal equipment 357',					
			Casing Set @ 355', Run 3 Centralizers					
			Cement Report: Pump 425 sxs Class "C" (2%CaCl2+.125#/sxCello-Flake) W/Rq. 6.32, Yield 1.32, Lbs/Gal					
			14.80, Plug Down @ 6:15 PM 10/5/08, Circ. 127 sxs (30 bbls) of cement to pits					
				BHA Air	BHA Mud	BHA Length		
						318.27		
				C O S T	Daily Cost		\$100,499	
					Total Cost		\$100,499	
					Mud Daily		\$0	
					Mud Total		\$0	
					Diesel & Fuels		\$0	
24.00	TOTAL HOURS		Accidents	None				
			Rig Downtime	0	Total Rig Downtime		0	

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DRILL PARAMETERS												
WOB	AI	Tot RPM	90	Rot Wt		PU Wt		SO Wt		Torque (Rds)	On Btm Press	900

PUMP DATA	Type	Duplex 1	Duplex 2	Triplex 1	Triplex 2	Triplex 3	FLOW RATE ↓	Jts	Length	ITEMS	LAST CASING DETAIL
	Mfg and Make	Brew 750	GDFXQ					1	1.25	13 3/8 Tex Pat. Guide Shoe	
	Liner	6	5 1/2					1	25.37	13 3/8, 48#, H-40, 8rd, ST&C, shoe jnt	
	Stroke	16	16					1	1.75	13 3/8, Float Collar	
	Rod Size	2 3/4	1 15/16	NA	NA	NA		8	330.62	13 3/8, 46#, H-40, 8rd, ST&C csg.	
	% Efficiency	90	90								
	Spm	55					Total BPM				
	Bps	0.150	0.132	0.000	0.000	0.000	8.3	-21.99	Top Piece Of Casing		
	Gps	6.313	5.560	0.000	0.000	0.000		11	337.00	Total Equipment In Well	
	Bpm	8.27	0.00	0.00	0.00	0.00	Total GPM		18.00	Below KB (And BGL If Liner)	
Gpm	347	0	0	0	0	347		355.00	Final Csg Setting Depth		

SPR's		BOP Drills	
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<div style="writing-mode: vertical-rl; transform: rotate(180deg);">MUD ADDITIVES</div>	Mud Company	Venture Mud	<div style="writing-mode: vertical-rl; transform: rotate(180deg);">SURVEYS</div>	Depth	339'	Angle	1°	Az		VS		DLS
	15 sxs Paper, 27 Soap Stix			Depth	498'	Angle	3/4°	Az		VS		DLS
				Depth	1,038'	Angle	3/4°	Az		VS		DLS
				Depth		Angle		Az		VS		DLS
				Depth		Angle		Az		VS		DLS
				Depth		Angle		Az		VS		DLS

Rev 19-07	MUD ADDITIVES	Mud Company	Venture Mud	SURVEYS	Depth	4,116'	Angle	1/2°	Az		VS		DLS
		9 sxs Paper, 0 Soap Stix, 30sxs Gel, 0sxs Soda A			Depth	4,592'	Angle	1°	Az		VS		DLS
		10 gal Vis Master			Depth		Angle		Az		VS		DLS
					Depth		Angle		Az		VS		DLS
					Depth		Angle		Az		VS		DLS
					Depth		Angle		Az		VS		DLS
VS-007 Sierra Driller Report													

J CLEO THOMPSON

AFF Amount

Dry Hole Cost

Spud Date		10/5/08	Well Name		Unlv.8-2 #4			AFE			Rpt Depth		5,344		
Todays Date		10/14/08	Field Name		Spraberry (Trend Area)			KB		16		GL Elev		3,003	
Report Number		9	Last Casing		8 5/8	@	5,219	Next Planned Casing		5 1/2		@	TD		
Supervisor		Johnnie R Holder		Rig Phone		432-213-3810		Background Gas		40	Conn Gas		0	Trip Gas	0
Todays Footage		125	Lithology		100% Dolo							Todays ROP		41.67	
Drig Hours		3	Planned Operations Or Comments Drilling 7 7/8 Hole								Drilling Contractor				
Trip Hours		7									Robinson Drilling Rig #11				
Other Hours		14													

From	To	HRS	ACTIVITY DESCRIPTION	BOTTOM HOLE ASSEMBLY				
6:00	12:00	6.00	Set 8 5/8 Slips, Cut off 8 5/8 casing, installed "B" Section	BHA No	3	Depth In	5,219	
12:00	14:00	2.00	Nipple up B.O.P.	Jts	Item	OD	ID	Length
14:00	15:00	1.00	Finish Nippling up B.O.P.	1	Bit	7.875	1.00	
15:00	18:00	3.00	Rig Repair (Work on Hidro matic)	1	Tri Collar	6.250	2.250	31.52
18:00	21:00	3.00	Pick up BHA	1	IBS	7.875	2.250	4.02
21:00	22:00	1.00	TIH w/4 stds DP, Layed down 12 joints DP	1	DC	6.250	2.250	29.92
22:00	1:00	3.00	TIH w/46 stds DP	1	IBS	7.875	2.250	5.13
1:00	1:30	0.50	Broke down 1 std DP in mouse hole & pick up kelly	22	DC's	6.250	2.250	661.19
1:30	3:00	1.50	Drilled out cement, Float collar & Shoe joint (Tag Cement @ 5,128')					
3:00	6:00	3.00	Drilling F/5,219' to 5,344'					
			Cement Report: 1st Lead Cement pump 600 sxs Class "C" (4%Gel+5%Salt+.125#/SX CelloFlake), W/Rq.					
			10.04, Yield 1.87, Lbs/Gal 13.30, 2nd Lead Cement pump 700 sxs 50:50:C (10%Gel+5%Salt+2#/SX					
			KOL-SEAL+.125#/SX CelloFlake) W/Rq. 14.00, Yield 2.45, Lbs/Gal 11.80, Tail Cement pump 200 sxs					
			Class "C" (1% CaCl2), W/Rq. 6.32, Yield 1.34, Lbs/Gal 14.80, Plug Down @ 6:15 AM 10/13/08					
			Circ. 426 sxs (142 bbls) cement to pits	BHA Air	BHA Mud	BHA Length		
						732.78		
				C	Daily Cost		\$57,212	
				O	Total Cost		\$668,563	
					Mud Daily		\$0	
				S	Mud Total		\$16,449	
				T	Diesel & Fuels		\$1,708	
24.00	TOTAL HOURS		Accidents	None				
			Rig Downtime	3	Total Rig Downtime	4 3/4		

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BIT INFO												BIT CONDITION							
NO	MFG Bit Type	Size	MFG	IADC Type	Serial No	Jets	Depth In	Rpt depth or out	Drilled Ftg	Total Hours	ROP	I	O	DC	L	B	G	RP	
1	WX3	17 1/2	SEC		20105	3-12	40	355	315	4.00	78.75								
2	FSX653	11"	SEC		11209794	6-12	355	5,219	4,864	117.75	41.31								
3	FM2745Z	7 7/8	SEC		1164973	7-12	5,219	5,344	125	3.00	41.67								
									0		0.00								
									0		0.00								
									0		0.00								
									0		0.00								

DRILL PARAMETERS													
WOB	18,000	Tot RPM	62	Rot Wt	140,000	PU Wt	144,000	SO Wt	138	Torque (Rds)		On Btm Press	950

PUMP DATA	Type	Duplex 1	Duplex 2	Triplex 1	Triplex 2	Triplex 3	FLOW RATE ↓	Jts	Length	ITEMS	LAST CASING DETAIL
	Mfg and Make	Brew 750	GDFXQ					1	1.25	8 5/8, Round Nose Guide Shoe	
	Liner	6	5 1/2					2	64.69	8 5/8, 32#, J-55, 8rd, ST&C, Shoe jnt	
	Stroke	16	16					1	1.50	8 5/8 Float Collar	
	Rod Size	2 3/4	1 15/16	NA	NA	NA		123	5157.53	8 5/8, 32#, J-55, 8rd, ST&C csg.	
	% Efficiency	90	90								
	Spm	56					Total BPM				
	Bps	0.150	0.132	0.000	0.000	0.000	8.4		-22.97	Top Piece Of Casing	
	Gps	6.313	5.560	0.000	0.000	0.000		127	5202.00	Total Equipment In Well	
	Bpm	8.42	0.00	0.00	0.00	0.00	Total GPM		17.00	Below KB (And BGL If Liner)	
Gpm	354	0	0	0	0	354		5219.00	Final Csg Setting Depth		

SPR's		BOP Drills	
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MUD	Mwt	Vis	PV	YP	Gels	API FL	HTHP FL	Cake 1/32	% LGS	% Tot Solids	pH	pf	pm	% Oil	Ca Ppm
	8.4	29				N/C					9.0				
	User Choice	LCM ppb			Chlorides	O/W Ratio	ES Volts	WPS	Ex Lime	% Lube	Beads ppb		Air - SCFM		Air O2 %
					N/A										

MUD ADDITIVES	Mud Company	Venture Mud	SURVEYS	Depth	4,116'	Angle	1/2"	Az	VS	DLS
	0 sxs Paper, 0 Soap Stix, 0sxs Gel, 0sxs Soda A			Depth	4,592'	Angle	1"	Az	VS	DLS
	0 gal Vis Master, 0 sxs Starch, 0 sxs Caustic			Depth	5,177'	Angle	1/4"	Az	VS	DLS
				Depth		Angle		Az	VS	DLS
				Depth		Angle		Az	VS	DLS
Rev 7-19-07				2007 Sierra Drilling Report						

J CLEO THOMPSON

AFF Amount

Dry Hole Cost

Spud Date		10/5/08	Well Name		Univ.8-2 #4			AFE				Rpt Depth		6,328	
Todays Date		10/15/08	Field Name		Spraberry (Trend Area)			KB		16		GL Elev		3,003	
Report Number		10	Last Casing		8 5/8	@	5,219	Next Planned Casing			5 1/2	@	TD		
Supervisor		Johnnie R Holder	Rig Phone		432-213-3810		Background Gas		40	Conn Gas		0	Trip Gas	0	
Todays Footage		984	Lithology		60% SandStone, 30% Shale, 10% LimeStone							Todays ROP		44.22	
Drig Hours		22 1/4	Planned Operations Or Comments ----- Drilling 7 7/8 Hole								Drilling Contractor				
Trip Hours		0									Robinson Drilling Rig #11				
Other Hours		1.75													

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BIT INFO												BIT CONDITION							
NO	MFG Bit Type	Size	MFG	IADC Type	Serial No	Jets	Depth In	Rpt depth or out	Drilled Ftg	Total Hours	ROP	I	O	DC	L	B	G	RP	
1	WX3	17 1/2	SEC		20105	3-12	40	355	315	4.00	78.75								
2	FSX653	11"	SEC		11209794	6-12	355	5,219	4,664	117.75	41.31								
3	FM2745Z	7 7/8	SEC		1164973	7-12	5,219	6,328	1,109	25.25	43.92								
									0		0.00								
									0		0.00								
									0		0.00								
									0		0.00								

DRILL PARAMETERS												
WOB	20/23	Tot RPM	60/65	Rot Wt	145,000	PU Wt	149,000	SO Wt	141	Torque (Rds)	On Btm Press	1,025

PUMP DATA	Type	Duplex 1	Duplex 2	Triplex 1	Triplex 2	Triplex 3	FLOW RATE ↓	Jts	Length	ITEMS	LAST CASING DETAIL
	Mfg and Make	Brew 750	GDFXQ					1	1.25	8 5/8, Round Nose Guide Shoe	
	Liner	6	5 1/2					2	64.69	8 5/8, 32#, J-55, 3rd, ST&C, Shoe jnt	
	Stroke	16	16					1	1.50	8 5/8 Float Collar	
	Rod Size	2 3/4	1 15/16	NA	NA	NA		123	5157.53	8 5/8, 32#, J-55, 3rd, ST&C csg.	
	% Efficiency	90	90								
	Spm	56					Total BPM				
	Bps	0.150	0.132	0.000	0.000	0.000	8.4	-22.97	Top Piece Of Casing		
	Gps	6.313	5.560	0.000	0.000	0.000	Total GPM	127	5202.00	Total Equipment In Well	
	Bpm	8.42	0.00	0.00	0.00	0.00			17.00	Below KB (And BGL If Liner)	
Gpm	354	0	0	0	0	354		5219.00	Final Csg Setting Depth		

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MUD ADDITIVES	Mud Company	Venture Mud	SURVEYS	Depth	4,116'	Angle	1/2"	Az		VS	DLS
	20 sxs Paper, 0 Soap Stix, 0sxs Gel, 0sxs Soda A			Depth	4,592'	Angle	1'	Az		VS	DLS
	8 gal Vis Master, 0 sxs Starch, 0 sxs Caustic			Depth	5,177'	Angle	1/4"	Az		VS	DLS
	25 sxs Lime			Depth	5,969'	Angle	3/4"	Az		VS	DLS
Rev 7-19-07				Depth		Angle		Az		VS 2007 Sierra Drilling Report	

Reel MUD ADDITIVES 19-07	Mud Company Venture Mud		SURVEYS	Depth	9,587'	Angle	1°	Az		VS		DLS	
	5 sxs Paper, 0 Soap Stix, 35sxs Gel, 1sxs Soda A			Depth	10,064'	Angle	1/2°	Az		VS		DLS	
	0 gal Vis Master, 105 sxs Starch, 4 sxs Caustic			Depth	10,562'	Angle	1/2°	Az		VS		DLS	
	3 sxs Lime, 6 sxs No Sulf			Depth		Angle		Az		VS		DLS	
				Depth		Angle		Az		VS		DLS	
				Depth		Angle		Az		VS		DLS	
2007 Sierra Dril Report													

**J. CLEO THOMPSON
UNIVERSITY 8-2 #4
ANDREWS COUNTY, TX
COMPLETION**

<u>API NO:</u>	42-003-40731	<u>Permit No:</u>	664300
<u>Location:</u>	160' FSL & 660' FWL Section 2, Block 8 University Lands Andrews County, Texas	<u>Field:</u>	Spraberry (Trend Area)
<u>Elevation:</u>	GL: 3,003'	KB: 3,019' (16')	
<u>Casing:</u>	13 3/8 (48#) @ 400'	8 5/8 (32#) @ 5,200'	5 1/2 (17#) @ 11,000'

Projected Tops:

<u>Formation</u>	<u>Measured Depth</u>	<u>Sub Sea Depth</u>
Rustler	2,120'	(+899')
Tansill	3,098'	(-79')
Yates	3,216'	(-197')
Grayburg	4,843'	(-1,824')
San Andres	5,008'	(-1,989')
Upper Spraberry	8,554'	(-5,535')
Lower Spraberry	9,086'	(-6,067')
Dean	9,698'	(-6,679')
Wolfcamp	9,821'	(-6,802')
Strawn	11,016'	(-7,997')

Permitted TD: 11,000'

<u>Drilling Contractor:</u>	Robinson Drilling Rig #11	432-267-5277
	Tool Pusher: Lester Lybrand	432-213-8108
		432-213-3810

<u>Mudlogging:</u>	Selman Associates	432-563-0084
	2-Man Logging from Int. Casing to TD	432-528-5832
	Web: www.selmanlog.com	User: thompson Pwd: jcleo

<u>Logging:</u>	Halliburton – Midland, TX	Office: 432-683-0271
	(Jeff Laufer)	Cell: 432-238-0801
		District: 432-682-4305

surface) Logs: Triple-Combo with Spectral GR TD-Casing (GR/CNL to

Company Personnel: Office: 432-550-8887

<i>Jeff Bryden</i> <i>Geologist</i> <i>Superintendent</i>	<i>Mark Hales</i> <i>Wellsite Geologist</i>	<i>Jim Stevens</i> <i>Operations Manager</i>	<i>Johnny Holder</i> <i>Drilling</i>
Home: 432-522-1929	432-694-2758	432-563-5504	432-363-8054
Mobile: 432-661-0171	432-553-9862	432-664-2917	432-556-9325

Directions: From Andrews go NE of Andrews on Hwy 115 for 9 miles, turn South thru cattle guard for 1.8 miles, road will curve to the east for 0.5 miles & then back to the south for 1.2 miles, turn east for 2.1 miles, north for 1.3 miles, road will curve to the east for 0.6 miles, turn north for 0.1 miles, turn east to location.

**J. CLEO THOMPSON
UNIVERSITY 8-2 #4
ANDREWS COUNTY, TX
COMPLETION**

10-26-08 Started to move frac tanks on location.

10-27-08 Move more frac tanks to location, 30 frac tanks and 1 acid tank. Started to fill up frac tanks.

10-28-08 Rig up Wood Group Wireline services.

10-26-08 Started to move frac tanks on location.

10-27-08 Move more frac tanks to location, 30 frac tanks and 1 Acid tank. Started to fill up frac tanks.

10-28-08 Rig up Wood Group Wireline Services. Went in the hole wireline
Ran a Radial Cement Bond log with Gamma Ray/ CCL. Went in the hole with perforation guns & perforation
the Lower Wolfcamp

University 8-2 #4

Proposed perfs: Wolfberry completion

Stage #	Formation	Perforated Interval	Interval footage	Shot Density	Total Holes	Total # of Holes for Stage	Aprox Sand Vol.	Aprox Rate
1	Lower Wolfcamp	10,690' - 10,694'	4	2	8	40	100 K Resin	70+
		10,731' - 10,735'	4	2	8			
		10,805' - 10,809'	4	2	8			
		10,857' - 10,861'	4	2	8			
		10,916' - 10,920'	4	2	8			

Pulled wireline out the hole & shut down.

10-29-08 Rig up CUDD Pumping Services
Started **Stage 1**

STIMULATION TREATMENT REPORTS

TREATMENT DATA

Prop Description	Volume Pumped [Lbs] 105,000
Total Prop Qty. 105,000	

PROCEDURE SUMMARY

Treating Pressure-Psi	Surface Slurry BBLS Pumped	Slurry Rate BPM	Comments
STP	Stage NET		
7200		0	Test lines Initial pressure reading

**J. CLEO THOMPSON
UNIVERSITY 8-2 #4
ANDREWS COUNTY, TX
COMPLETION**

172	30.0	812	0	Stage 1
4284	710	4645.0	23.2	(Broke @ 3681PSI)
5048	478.0	5169.0	40.0	Spearhead Acid
5416	0	5126.0	63.6	Start Pad
5439	0	5109.0	63.5	Spearhead Acid on Form.
5502	245.0	1605.0	69.4	Pad on Form.
5510	0	1758.0	70.3	Start 0.50# SLC20/40
5521	318.0	1772.0	70.2	0.50# SLC20/40
5344	0	1753.0	70.3	Start 1# SLC 20/40
5204	509.0	1676.0	67.8	1# on Form.
5206	0	1760.0	70.4	Start 1.5# SLC20/40
5137	520.0	1713.0	70.3	1.5#On Form.
5104	0	1789.0	71.7	Start2# SLC20/40
5191	120	1811.0	75.0	2#on Form.
5152	0	1438.0	66.8	Start 2.5#SLC20/40
4108	36	1081.0	47.0	2.5#on Form.
4120	214	1075.0	51.1	Start Acid Spot
5325	0	1464.0	66.3	Start Flush
				Shut down
				Turn over to wire
				ISIP 3564 PSI

Went in the hole with wire line and perforation guns and plug
Set plug @10,555'
Perforation the Cline

Stage #	Formation	Perforated Interval	Interval footage	Shot Density	Total Holes	Total # of Holes for Stage	Aprox Sand Vol.	Aprox Rate
2	Cline	10,397' - 10,401'	4	3	12	39	60 K Resin	70+
		10,446' - 10,451'	5	3	15			
		10,515' - 10,519'	4	3	12			

STIMULATION TREATMENT REPORTS

TREATMENT DATA

Total Prop Qty. 67,000

Stage 2
PROCEDURE SUMMARY

Treating Pressure-Psi		Surface Slurry BBLS Pumped		Slurry Rate BPM	Comments
STP	Net	Stage	Total		
405					Initial pressure reading
					Stage 2
405		32.0		0.3	(Broke @ 5566 PSI)
3591		71.0	32.0	25.3	Spearhead Acid
4111	189	357.0	103.0	41.6	Start Pad
5565	991.0	0	460.0	70.6	Spearhead Acid on Form.
5344	796.0	0	460.0	70.8	Pad on Form.

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ANDREWS COUNTY, TX
COMPLETION**

5273	729.0	171.0	460.0	70.9	Start 0.50# SLC20/40
5140	868.0	0	631.0	70.7	0.50# SLC20/40
5196	886.0	199.0	631.0	70.2	Start 1# SLC 20/40
4977	849.0	0	830.0	71.0	1# on Form.
5004	863.0	204.0	830.0	71.1	Start 1.5#SLC20/40
4816	836.0	0	1034.0	71.9	1.5#On Form.
4840	854.0	312.0	1034.0	71.7	Start2#SLC20/40
4678	815.0	0	1346.0	71.4	2#on Form.
4694	839.0	133.0	1346.0	72.2	Start 2.5#SLC20/40
4679.0	446.0	0	1479.0	69.4	2.5#on Form.
2804	-290.0	36.0	1479.0	31.7	Start Acid Spot
2812	-314.0	207.0	1515.0	31.9	Start Flush
5036	513	0	1722.0	69.5	Shut down
					ISIP 2599 PSI

Went in the hole with wire line
Went in the hole with perforation guns and plug
Set plug @ 10,280'
Perforation the Upper Wolfcamp

Stage #	Formation	Perforated Interval	Interval footage	Shot Density	Total Holes	Total # of Holes for Stage	Aprox Sand Vol.	Aprox Rate
3	Upper Wolfcamp	10,077' - 10,081'	4	2	8	40	110 K Resin	70+
		10,124' - 10,128'	4	2	8			
		10,170' - 10,174'	4	2	8			
		10,204' - 10,208'	4	2	8			
		10,235' - 10,239'	4	2	8			

**STIMULATION TREATMENT REPORTS
TREATMENT DATA**

Total Prop Qty 123,000

Stage 3

PROCEDURE SUMMURY

Treating Pressure-Psi		Surface Slurry BBLs Pumped		Slurry Rate BPM	Comments
STP	Net	Stage	Total		
2366					Initial pressure reading
					Stage 3
2366	-832.0	24.0	0.0	0.1	(Broke @ 2525 PSI)
4300	938.0	0	0	0.1	pressure up to test frac valve
3850	42.0	71.0	24.0	43.3	Spearhead Acid
4251	193.0	357.0	95.0	52.5	Start Pad
4593	225.0	0	452.0	75.3	Spearhead Acid on Form.
4633	230.0	0	452.0	75.3	Pad on Form.
4673	271.0	244.0	452	74.5	Start 0.50# SLC20/40
4601	346.0	0	696.0	75.0	0.50# SLC20/40 on form.
4597	341.0	374.0	696.0	74.9	Start 1# SLC 20/40
4490	342.0	0	1070.0	74.6	1# on Form.

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4482	315.0	636.0	1070.0	75.1	Start 1.5#SLC20/40
4390	354.0	0	1706.0	75.0	1.5#On Form.
4383	388.0	521.0	1706.0	75.3	Start2#SLC20/40
4340	429.0	0	2227.0	75.4	2#on Form.
4335	426.0	133.0	2227.0	75.2	Start 2.5#SLC20/40
4187	-37.0	0	2360.0	66.4	2.5#on Form.
3662	-93.0	36.0	2360.0	56.6	Start Acid Spot
4014	-40.0	199.0	2396.0	64.8	Start Flush
4458	39.0	0	2595.0	66.6	Shut down

ISIP 2713 PSI
Turn over to wire

Went in the hole with wire line
Went in the hole with perforation guns and plug
Miss run wire line would not set plug
Pulled wire line out the hole
Went in with wireline set plug @ 9932'
Perforation the Dean

Stage #	Formation	Perforated Interval	Interval footage	Shot Density	Total Holes	Total # of Holes for Stage	Aprox Sand Vol.	Aprox Rate
4	Dean	9,705' - 9,710'	5	2	10	44	120 K Resin	75+
		9,756' - 9,759'	3	2	6			
		9,806' - 9,809'	3	2	6			
		9,853' - 9,858'	5	2	10			
		9,883' - 9,889'	6	2	12			

STIMULATION TREATMENT REPORTS
STAGE 4

TREATMENT DATA

Total Prop Qty 132,700

PROCEDURE SUMMARY

Treating Pressure-Psi		Surface Slurry		Slurry Rate	Comments
		BBLs Pumped		BPM	
STP	Net	Stage	Total		
182					Initial pressure reading

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					Stage 4
182	-3122.0	26.0	0	26	(Broke @ 3861PSI)
3127	-737.0	71.0	26.0	28.3	Spearhead Acid
4279	-130 .0	476.0	97.0	50.1	Start Pad
6092	1207.0	0	573.0	75.0	Spearhead Acid on Form.
6099	1200.0	0	573.0	74.7	Pad on Form.
5574	810.0	245.0	573.0	69.3	Start 0.50# SLC20/40
5415	1351.0	0	818.0	69.2	0.50# SLC20/40 on form.
5413	1356.0	249.0	818.0	69.2	Start 1# SLC 20/40
5264	1279.0	0	1067.0	71.9	1# on Form.
5244	1284.0	382.0	1067.0	72.1	Start 1.5#SLC20/40
5237	1353.0	0	1449.0	75.1	1.5#On Form.
4686	936.0	910.0	1449.0	68.6	Start2#SLC20/40
5158	1395.0	0	2359.0	76.5	2#on Form.
5248	1407.0	0	2359.0	78.1	rate pressure check 350 bbl's
5109	1269.0	0	2359.0	78.3	rate pressure check 700 bbl's
5013	1207.0	203.0	2359.0	78.4	Start 2.5#SLC20/40
2899	-531	0	2562.0	47.9	2.5#on Form.
2454	-824.0	36.0	2562.0	38.8	Start Acid Spot
2448	-845.0	226.0	2598.0	38.9	Start Flush
4280	166.0	0	2824.0	58.8	Shut down
					ISIP 1787 PSI
					Turn over to wire

Went in the hole with wire line
Went in the hole with perforation guns and plug
Set plug @ 9,544'
Perforation the Lower Sprayberry

Stage #	Formation	Perforated Interval	Interval footage	Shot Density	Total Holes	Total # of Holes for Stage	Aprox Sand Vol.	Aprox Rate
5	Lower Sprayberry	9,353' - 9,358'	5	2	10	40	90 K White & 20 K Resin	70+
		9,437' - 9,442'	5	2	10			
		9,480' - 9,485'	5	2	10			
		9,507' - 9,512'	5	2	10			

Shut down
10-30-08
CUDD broke down
Started to frac at 10.45 a.m.
STIMULATION TREATMENT REPORTS

STAGE 5

TREATMENT DATA

Total Prop Qty 122,000

PROCEDURE SUMMARY

Treating Pressure-Psi	Surface Slurry BBLs Pumped	Slurry Rate BPM	Comments
STP	Net	Stage	Total

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280					Initial Pressure Reading
280	-3158.0	24.0	0	1.8	(Broke @ 3473 PSI)
2171	-1597.0	60.0	24.0	31.7	Start Spearhead Acid
2923	-1145.0	476.0	84.0	52.4	Start pad
3384	1402.0	0	560.0	71.3	Spearhead Acid on Form
3298	1399.0	0	560.0	71.4	Pad on Form
3258	1424.0	487.0	560.0	70.8	Start 0.50#ppg 20/40 Ottawa
3184	1441.0	0	1047.0	70.9	.50 ppg 20/40 Ottawa on form
3147	1434.0	500.0	1047.0	70.9	start 1.00 ppg 20/40 Ottawa
3015	1427.0	0	1547.0	70.7	1.0ppg 20/40 Ottawa On Form
2983	1411.0	509.0	1547.0	71.0	Start 1.5ppg 20/40 Ottawa
2890	1412.0	0	2056.0	70.9	1.5ppg 20/40 Ottawa On Form
2882	1413.0	389.0	2056.0	71.2	Start 2.ppg 20/40 Ottawa
2807	1453.0	0	2445.0	71.1	2.0 ppg 20/40 Ottawa On Form
2804	1473.0	237.0	2445.0	71.7	Start 3.0ppg 20/40 SLC
2114	1045.0	0	2682.0	53.7	3.0 ppg 20/40 SLC on form
2336	1166.0	24.0	2682.0	58.1	Start Acid Spot
2593	1358.0	217	2706.0	70.6	Start Flush
2936	1145.0	0	2923.0	63.8	shut down
					ISIP 1201 PSI

Turn to Wireline
Went in the hole with wire line
Went in the hole with perforation guns and plug
Set plug @ 9,218''
Perforation the Middle Sprayberry
Wireline shot 9,148' - 9,153'
9,176' - 9,181'
Did not shoot 9,069' - 9,074'
9,116' - 9,121'
Pulled wire line out the hole
Went back in the hole and shot the perforation
9,069' - 9,074'
9,116' - 9,121'

**STIMULATION TREATMENT REPORTS
STAGE 6**

Total Prop Qty 108,000

PROCEDURE SUMMARY

Treating Pressure-Psi	Surface Slurry BBLs Pumped	Slurry Rate BPM	Comments
STP	Net	Stage	Total
1263	62	24.0	0
2482	886	71.0	24.0
2793	895.0	357.0	95.0
0	0	0	0
			452.0
1131	0	0	452.0
2900	951.0	365.0	452.0
2780	937.0	0	817.0
2756	926.0	373.0	817.0
2654	954.0	0	1190.0
2630	936.0	381.0	1190.0

break @ 1366
Start Acid Spearhead
Start Pad
Shut down to change
Turbine on Blender
Start Pad after Shut down
Start .50 ppg 20/40 Ottawa
.50ppg 20/40 Ottawa on form
Start 1.0 ppg 20/40 Ottawa
1.0 ppg 20/40 Ottawa on form
Start 1.5 ppg 20/40 Ottawa

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2518	927.0	0	1571.0	70.6	1.5 ppg 20/40 Ottawa on form
2492	935.0	456.0	1571.0	70.5	Start ppg 20/40 Ottawa
2429	969.0	0	2027.0	71.0	2.0 ppg 20/40 Ottawa on form
2401	982.0	240.0	2027.0	71.6	Start 3.0 20/40 SLC
1931	665.0	24.0	2267.0	58.4	Start Acid Spot
2061	756.0	213.0	2291.0	62.6	Start Flush
2836	863.0	0	2504.0	69.7	Shutdown
					ISIP 913 PSI

Went in the hole with wire line
Went in the hole with perforation guns and plug
Set plug @ 8920'
Perforation the Upper Sprayberry

STIMULATION TREATMENT REPORTS

STAGE 6

TREATMENT DATA

Total Prop Qty 112,500

PROCEDURE SUMMARY

Treating Pressure-Psi		Surface Slurry BBLs Pumped		Slurry Rate BPM	Comments
STP	Net	Stage	Total		
1136	-157.0	30.0	0	6.4	break @ 1366
2794	928.0	100.0	30.0	55.8	Start Acid Spearhead
3058	1001.0	357.0	130.0	67.0	Start Pad
2517	339.0	0	487.0	73.5	Pad on form.
2511	368.0	357.0	487.0	73.5	Start .50 ppg 20/40 Ottawa
2310	1327.0	0	844.0	73.2	.50 ppg 20/40 Ottawa on form
2335	1325.0	361.0	844.0	73.4	Start 1.0 ppg 20/40 Ottawa
2220	1320.0	0	1205.0	73.2	1.0 ppg 20/40 Ottawa on form
2174	1352.0	441.0	1205.0	73.6	start 2.0 ppg 20/40 Ottawa
2057	1394.0	0	1646.0	73.7	2.0 ppg 20/40 Ottawa on form
1999	1382.0	370.0	1646.0	73.8	start 3.0 ppg 20/40 Ottawa
1921	1479.0	0	2016.0	73.9	3.0 ppg 20/40 Ottawa on form
1903	1468.0	76.0	2016.0	74.1	start 3.00 ppg 20/40 SLC
2336	1453.0	0	2092.0	72.6	3.0 PPG 20/40 SLC on form
2020	1533.0	202.0	2092.0	71.7	Start Flush
2418	1343.0	0	2294.0	73.3	Shutdown
					ISIP 599 PSI

SHUT IN WELL

Rig down Wood Group Wireline
Rig down Cudd Frac Services

10-31-08 0 BO, 217 BW
11-1-08 0 BO, 207 BW
11-2-08 0 BO, 457 BW
11-3-08 0 BO, 466 BW
11-4-08 Trace of oil, 457 BW
11-5-08 Trace of oil, 345 BW
11-6-08 0 BO, 330 BW
11-7-08 0 BO, 321 BW
11-8-08 0 BO, 276 BW
11-9-08 0 BO, 212 BW
11-10-08 0 BO, 180 BW

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10-31-08 0 BO, 217 BW
11-1-08 0 BO, 207 BW
11-2-08 0 BO, 457 BW
11-3-08 0 BO, 466 BW
11-4-08 Trace of oil, 457 BW
11-5-08 Trace of oil, 345 BW
11-6-08 0 BO, 330 BW
11-7-08 0 BO, 321 BW
11-8-08 0 BO, 276 BW
11-9-08 0 BO, 212 BW
11-10-08 0 BO, 180 BW
11-11-08 0 BO, 209 BW, 0 MCF
11-12-08 0 BO, 295 BW
11-13-08 0 BO, 122 BW
11-14-08 0 BO, 122 BW, 0 MCF
11-15-08 0 BO, 162 BW, 0 MCF
11-16-08 0 BO, 18 BW, 0 MCF
11-17-08 0 BO, 30 BW, 0 MCF
11-18-08 0 BO, 15 BW, 0 MCF
11-19-08 0 BO, 30 BW, 0 MCF
11-20-08 0 BO, 0 BW, 0 MCF, Rode rig to location, shut down due to high winds.

11-21-08 0 BO, 0 BW, 0 MCF, Rig up & Unloaded tubing to pipe racks. Pump 90 bbls of brine water. Took off frac valve and 10 thousands lbs. wellhead off. Put on 5000 lbs wellhead on well. Pick up and tally tubing in the hole. Pick up a total of 244 joints of 2 7/8 tubing (L-80). Left well flowing in to frac tanks & shut down.

11-22-08 0 BO, 0 BW, 0 MCF, Bled well down & pumped 90 bbls of 10 lbs. brine water. Pick up 90 joints of 2 7/8 tubing. Tag up @ 11050' & lay down 79 joints of 2 7/8 tubing. Pulled out the hole with 200 stands & left well flowing to frac tanks. Shut down.

11-23-08 0 BO, 0 BW, 0 MCF

11-24-08 0 BO, 0 BW, 0 MCF, Pumped 90 bbls of 10# brine. Pulled 30 stands out the hole. Well started to flow. Waited on pump truck. Pump 50 bbls of 10# brine. Went in the hole with tubing anchor (2.80').

1 seat nipple (1.10')

1 2 1/2 X 5 1/2 packer ([1.50')

1 seat nipple (.75')

1 gas separator (20.80')

1 4' 2 7/8 sub (4.14')

1- 2 7/8 tubing (32.65')

1- 2 7/8 seat nipple (1.10')

1- endurance joint (31.15')

259 joints of 7/8 tubing (8467.36')

Seat nipple set @ **8467.36'**

Took BOP off the well head

PACKER @8526.80

TUBING ANCHOR @8532.20

Set packer and tubing anchor. Put 20 points on tubing anchor & flange well head up. Flow well back in to frac tanks & shut down.

11-25-08 0 BO, 281 BW, 0 MCF. Rig broke down, waited on parts & fix rig. Pump 90 bbls of 10# brine water.

Went in the hole with 28' pump,

2' sub (7/8)

1- 1.5 k-bar

1- 26-k shear tool

11- 1.5 k -bars [3/4 pin]

68 -7/8 rods

100- 1 inch rods

104 -1 ¼ fiberods

1-9' 1 ¼ fiberod sub

1-6' 1 ¼ fiberod sub

1-30' polish rod

Hang well on

Put well to pumping to frac tanks

Shut down.

11-26-08 0 BO, 454 BW, 0 MCF

11-27-08 0 BO, 467 BW, 0 MCF

11-28-08 0 BO, 458 BW, 0 MCF

11-29-08 0 BO, 447 BW, 0 MCF

11-30-08 0 BO, 447 BW, 0 MCF

12-1-08 0 BO, 315 BW, 0 MCF

12-2-08 0 BO, 396 BW, 0 MCF

12-3-08 24 BO, 315 BW, 0 MCF

12-4-08 54 BO, 330 BW, 0 MCF

12-5-08 76 BO, 347 BW, 0 MCF

12-6-08 98 BO, 307 BW, 0 MCF

12-7-08 64 BO, 268 BW, 0 MCF

12-8-08 61 BO, 289 BW, 0 MCF

12-9-08 31 BO, 168 BW, 0 MCF

12-10-08 39 BO, 145 BW, 0 MCF

12-11-08 36 BO, 178 BW, 0 MCF

12-12-08 40 BO, 190 BW, 0 MCF

12-13-08 38 BO, 187 BW, 0 MCF

12-14-08 45 BO, 142 B W, 59 MCF

12-15-08 46 BO, 129 BW, 0 MCF

12-16-08 64 BO, 116 BW, 0 MCF

12-17-08 75 BO, 120 BW, 0 MCF

12-18-08 79 BO, 110 BW, 41 MCF

12-19-08 80 BO, 138 BW, 55 MCF

12-20-08 81 BO, 80 BW, 64.6 MCF

12-21-08 60 BO, 83 BW, 0 MCF

12-22-08 79 BO, 78 BW, 66 MCF

12-23-08 33 BO, 89 BW, 28.8 MCF

12-24-08 79 BO, 84 BW, 95 MCF

12-25-08 80 BO, 92 BW, 68.2 MCF
12-26-08 89 BO, 67 BW, 53 MCF
12-27-08 84 BO, 79 BW, 56.7 MCF
12-28-08 71 BO, 93 BW, 54 MCF
12-29-08 49 BO, 62 BW, 60 MCF
12-30-08 84 BO, 67 BW, 44.5 MCF
12-31-08 84 BO, 85 BW, 57.6 MCF
01-01-09 53 BO, 69 BW, 51.7 MCF
01-02-09 49 BO, 72 BW, 57.9 MCF
01-03-09 45 BO, 72 BW, 53.6 MCF
01-04-09 57 BO, 68 BW, 61 MCF