

Top of ASIX 2697' , On/Off 2693'

DOWN HOLE WELL PROFILE

WELL NAME	Cottonwood 22 fed 3H	DATE	11/7/09
SUPERVISOR	Jerry Horton	TOOL HAND	James Daugherty
PHONE #	303-285-5925	PHONE #	432-664-6392
RIG #	Kev Energav 880	FIELD TICKET #	8871

ELEVATIONS

KB ELEV	GL ELEV	KB TO THF	KB TO SCF	RIG KBD	PBTD
CASING / OPEN HOLE LAYOUT		OD (IN)	LANDED DEPTH	WEIGHT (LB/FT)	TOP OF (FTKB)
CASING DESCRIPTION		5.5	2823'	17 #	
WINDOW DESCRIPTION					
OPEN HOLE DESCRIPTION		4.75	4948'	JUNCTION @	2823'

DESCRIPTION

BOTTOM OF CURVE 3195' MD

ASIX PACKER SEAL 2700'

STEERING DIRECTIONS

DOWNHOLE DESCRIPTION FROM BOTTOM UP (Tubing String)

BOTTOM @	DESCRIPTION	LENGTH	ID	OD
4789.00	Pumpoff Plug 1	0.78	0.750	3.630
4788.22	2 Jts 2 7/8" 6.5# L-80 EUE 8 Rd Liner (1-2)	65.19	2.441	2.875
4723.03	4 1/2 Open Hole Anchor w/Centralizer 1 2	4.54	2.380	4.500
4718.49	2 Jts 2 7/8 6.5# L-80 EUE Liner (3-4)	65.32	2.441	2.875
4653.17	4 5/8" Centralizer	0.49	2.441	4.625
4652.68	4 1/2 ISO PAK Packer (2) 1 3	5.74	2.380	4.500
4646.94	6 Jts 2 7/8 6.5 # L-80 EUE Liner (5-10)	195.90	2.441	2.875
4451.04	Strata Port 1.28" ID (GEN 3) 4	2.95	1.280	4.190
4448.09	5 Jts 2 7/8 6.5 # L-80 EUE Liner (11-15)	163.27	2.441	2.875
4284.82	Centralizer	0.49	2.441	4.625
4284.33	4 1/2 ISO PAK Packer (2) 2 5	5.74	2.380	4.500
4278.59	5 Jts 2 7/8 6.5 # L-80 EUE Liner (16-20)	163.04	2.441	2.875
4115.55	Strata Port 1.53" ID (GEN 3) 6	2.95	1.530	4.190
4112.60	5 Jts 2 7/8 6.5 # L-80 EUE Liner (21-25)	163.45	2.441	2.875
3949.15	Centralizer	0.49	2.441	4.625
3948.66	4 1/2 ISO PAK Packer (2) 3 7	4.48	2.380	4.500
3944.18	4 Jts 2 7/8 6.5 # L-80 EUE Liner (26-29)	130.47	2.441	2.875
3813.71	Strata Port 1.78" ID (GEN 3) 8	2.95	1.780	4.190
3810.76	4 Jts 2 7/8 6.5 # L-80 EUE Liner (30-33)	130.52	2.441	2.875
3680.24	4 5/8" Centralizer	0.49	2.441	4.625
3679.75	4 1/2 ISO PAK Packer (2) 4 9	5.74	2.380	4.500
3674.01	5 Jts 2 7/8 6.5 # L-80 EUE Liner (34-38)	163.20	2.441	2.875
3510.81	Strata Port 2.03" ID (GEN 3) 10	2.95	2.030	4.190
3507.86	4 Jts 2 7/8 6.5 # L-80 EUE Liner (39-42)	130.35	2.441	2.875
3377.51	4 5/8" Centralizer	0.49	2.441	4.625
3377.02	4 1/2 ISO PAK Packer (2) 5 11	5.74	2.380	4.500
3371.28	6 Jts 2 7/8 6.5# L-80 EUE Liner (43-48)	192.60	2.441	2.875
3178.68	XO 2 7/8 UFX BOX x 2 7/8 8 RD Pin 12	1.05	2.441	3.060
3177.63	15 Jts 2 7/8 6.5 # UFX Liner (1-15)	471.40	2.441	2.875
2706.23	XO 2 7/8 8 Rd BOX x 2 7/8" UFX Pin	0.75	2.441	3.690
2705.48	Downhole Swivel	1.32	2.441	3.690
2704.16	5 1/2 x 2 7/8 8 Rd ASIX 10K 13	7.20	2.380	4.625
2696.96	2 7/8 8 RD Nipple L-80	0.50	2.441	3.125
2696.46	Inverted On / Off Assembly	3.37	2.441	4.500
2693.09	XO 2 7/8 AOH BOX x 2 7/8 8 Rd Pin	1.30	2.441	3.875
2691.79	2 7/8 AOH Pup Jt	3.78	2.090	2.875
2688.01	84 Jts 2 7/8 AOH Drillpipe	2657.87	2.150	2.875
30.14	2 7/8 AOH Pup Jt	9.71	2.150	2.875
20.43	1 Jt 2 7/8 AOH Drillpipe	30.95	2.150	2.875
-10.52	Stick Up			
-10.52				
-10.52				
-10.52				

WEIGHT OF STRING

50	TOTAL STRING LENGTH
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PUSH / PULL TEST

STICK-UP OFF RIG FLOOR

LINER STRING WEIGHT

TUBING BOTTOM

4799 52

-10.52

4789 00

ISO PAK #5 3377'

2.03" Strata Port 3510'
1727 PSI, 2.25" Ball

ISO PAK #4 3679

1.78" Strata Port 3813'
1727 PSI , 2.0" Ball

ISO PAK #3 3948

**1.53" Port 4115'
1727 PSI , 1.75" Ball**

ISO PAK #2 4284

1.28" Strata Port 4451'
1727 PSI , 1.50" Ball

ISO PAK #1 4652'

Anchor #1 4723'

Pump Out Plug 4789'

*** CONFIDENTIAL ***

NOT TO BE DISCLOSED OUTSIDE

****Cimarex Energy ****

TOTAL MEASURED DEPTH
@ 4948' FT