

ANDREWS

Note: Waterboard generally requires prot
 * Denotes a non productive format
TAG ALL Surface Casing Shoe Plu

Field Name	Formations	Fm Tops
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Andrews

Ell/Penn/Bend	12300
Dev	10400
Str	9200
Wfcp	8500
WA	8100
Clfk	7600
Glor*	6000
SA*	4600
Yates*	3000

**Possible Yates Gas Pressure migrating to the Santa Ro
 Surface Casing - separate all water board plugs in thes**

Bakke

Ell	12300
Dev	10500
Penn	8700
Wfcp	8400
Clfk	7500
SA*	4800
Yates*	2900

**Possible Yates Gas Pressure migrating to the Santa Ro
 Surface Casing - separate all water board plugs in thes**

Big Max

Wfcp*	9400
Leon	7900
SA*	4400
Q*	4000
Yates*	2700

TAG ALL Surface Casing Shoe Plu

Bedford

Ell	11000
McKee	10600
Fuss	9700
Dev	8700
Wfcp	7600
Clfk*	6000
SA*	4300
Yates*	2600

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Block 2

SA/GB	4400
Yates*	3000

Block 6

Dev	12000
Str	11000
Spra	8400
SA*	4700
Yates*	3100

Block 9

Ell	12400
SA*	4300
Yates*	2600

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

TAG ALL Surface Casing Shoe Plu

Block 11

Ell/Con	8700
Fuss	8400
Dev	8100
PermDet	7800
Wfcp	7700
W/A	6600
Clfk*	5700
SA*	4200
Yates*	2700

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Block 12

Ell	10100
McKee	9800
Dev	8000
Wfcp	7600
Clfk	7100
SA	4300
Yates*	2700

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Block A-34

Ell	13200
Dev	11500
Str	9900
Clfk	6500
Glor	5900
SA	4600
7Riv	3000
Yates	2900

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

TAG ALL Surface Casing Shoe Plu

Block A-49

Ell	11200
Dev	8500
SA*	4300
Yates*	3000

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Boydell

W/A	7400
Clfk	6900
SA/Gbg	4200
Queens	3600
Yates*	2700

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Clabberhill

GBG	4100
Yates*	2900

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Cowden

Str	9200
Canyon	8600
Holt (Deep)	5100
SA/Grbg	4200
Yates*	2600

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Dalsam

Dev	12500
Spra*	8400
SA*	4700
Yates*	3100

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

TAG ALL Surface Casing Shoe Plu

Deep Rock

Dev	10,000
Penn	9000
Wfcp*	8500
Glor	5500
SA*	4300
Yates*	2800

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Dollarhide

Ell	12800
Fuss	10900
Sil	8700
Dev	8400
Atoka	8100
Clf	6500
SA*	3700
Yates*	2600

Embar

Ell	7900
Perm/LoClfk	6300
Glor	5100
Clfk	5600
SA*	4200
Yates*	2500

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Emma

Ell	13300
Fuss*	11300
Dev*	10100
Str*	8800
Wfcp*	8400
Clfk*	7300
Glor	5100
SA	4200
Yates*	2500

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

TAG ALL Surface Casing Shoe Plu

Fasken

Penn	10200
Wfcp	8400
Spra*	7300
SA*	4400
Yates*	2600

Fuhrman	Wfcp	8400
	Spra	7300
	Glor	5600
	SA*	4400
	Yates*	2800

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Fuhrman-Mascho	SA	4200
	Yates*	2800

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Fullerton	Ell	11500
	Dev	8500
	Clfk	6100
	SA	4300
	Yates*	2700

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Glasco	Ell	13700
	Dev	12500
	Str*	10800
	Spra*	8600
	Glor*	5100
	SA*	4800
	Yates*	3200

TAG ALL Surface Casing Shoe Plu

Goldsmith

Sil/Penn	8000
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Dev	7600
Clfk	5600
Holt	5000
SA/Grbg	4300
Yates*	2700

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Hudson

WA/Abo	7200
SA	4300
Yates*	2800

Hutex

Dev	12500
Str*	11,000
Wfcp*	9900
Dean	9500
Up Spra*	8400
SA*	4600
Yates*	3200

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Lowe

EII	13000
Sil	12500
Miss/Atoka	10700
Dean/Leon	9200
Clfk*	7200
SA*	4500
Yates*	2900

M.F.E.

Grbg	4700
Yates*	3000

TAG ALL Surface Casing Shoe Plu

Mabee

SA	4700
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Yates*	2700
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Magutex

Ell/Sil	13900
Dev	12500
Wfcp*	9400
Clfk*	7200
SA*	5300
Grbg*	5000
Q	4800
Yates*	3000

Martin

Ell	8800
McKee	8300
WA	6600
Tubb	6100
Up Clfk	5600
SA*	4100
Yates*	2700

McFarland

Wfcp*	9200
SA*	5000
Q	4700
Yates*	3100

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Means

Wfcp	9400
SA/Grbg	4400
Q	4000
Yates*	2700

TAG ALL Surface Casing Shoe Plu

Midland Farms

Fuss	11,900
Wfcp	8400
Clfk*	6800

Grbg	4800
Q*	4000
Yates*	3000

Mid-Max

Dev	8400
WA	7400
SA	4300
Yates*	2800

Nelson

Ell	10300
WA	7100
Clfk	6800
Glor	5200
SA*	4100
Yates	2800

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Nix

Clfk	7300
Glor	5500
SA*	4300
Yates*	2800

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Nolley

Wfcp	8900
Clfk*	7200
SA*	5000
Yates*	3000

TAG ALL Surface Casing Shoe Plu

Norman

Ell	13800
Dev	12200
Cany	10200
Wfcp*	8000

Clfk**	6000
SA*	4700
Q	4400
Yates*	2700

Parker

Penn	9100
Wfcp*	8500
Clfk*	7300
SA/Grbg	4800
Yates*	2800

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Purdy

WA	6900
SA*	3900
Yates*	2700

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Serio

Grbg	4400
Yates	2900

Shafter Lake

Ell	11600
Dev	9400
Wfcp	8400
Clfk	6900
SA	4400
Yates	3000

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

TAG ALL Surface Casing Shoe Plu

Smith

Clfk	7300
SA	4200
Yates*	2800

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Three Bar

Dev	8400
Wfcp	7500
WA	7200
Tubb*	6300
Clfk**	5900
SA	4000
Yates	2800

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Triple N

Ell	12000
Dev	10400
Penn	8900
Wfcp*	8500
Knight/Holt*	5500
Grbg	4200
Yates*	2900

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

Union

WA	6500
SA*	4200
Yates*	2500

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

TAG ALL Surface Casing Shoe Plu

Univ. Bk 9

Ell	12400
Fuss	11700
Dev	10400
Penn	8900

Wfcp	8300
Glor*	5600
SA*	4500
Yates*	2900

**Possible Yates Gas Pressure migrating to the Santa Ro
Surface Casing - separate all water board plugs in thes**

VJK

PermDetrital	7900
SA*	5000
Yates*	3200

2/20/13

~~ection of SR
ion
gs in Open Hole~~

Remarks

WBL 300 + SR (1000-1500)
Combo plugs Penn/Wfcp/WA/Leon/Clfk is OK

see above

TAG

~~osa through shallow
e cases~~

WBL 250 + SR(1200-1700)

TAG

~~osa through shallow
e cases~~

WBL 250 + SR(1050-1700)

TAG

Yates top est

~~gs in Open Hole~~

WBL 250 + SR(950-1350)

TAG
Yates top est.
osa through shallow
re cases

WBL 250 + SR (1100 - 1650)

TAG

WBL 300 + SR (1250-1750)

TAG

WBL 250 + SR(1250-1700)

TAG
Yates top est.
osa through shallow
re cases

gs in Open Hole

WBL 250 + SR(1000-1400)
Combine Ell/Fuss/Dev plugs acceptable

(CF, GL, SA, Tubb, 5700' WA, Spraberry
7200' have been commingled & renamed to
Martin Consolidated (4199-7923))
TAG

~~osa through shallow
e cases~~

WBL 350 +SR(850-1350)

TAG

~~osa through shallow
e cases~~

WBL 250 + SR (1350-1700)

TAG

~~osa through shallow
e cases~~

gs in Open Hole

WBL 450 + SR (1200-1500)

TAG

~~osa through shallow
e cases~~

WBL 250 + SR (1150-1500)

TAG

~~osa through shallow
e cases~~

WBL 250 + SR(900-1600)

~~osa through shallow
e cases~~

WBL 250 + SR(900-1600)

See also Ector Co.

TAG

~~osa through shallow
e cases~~

WBL 250 + SR (1400-1750)

TAG

~~osa through shallow
e cases~~

gs in Open Hole

WBL 250 + SR (1200-1600)

TAG

~~osa through shallow
e cases~~

WBL 250 + SR (600-1050)

TAG

WBL 250 + SR (750-1200)

TAG

~~osa through shallow
e cases~~

WBL 250 + SR (900-1600)

TAG

~~osa through shallow
e cases~~

gs in Open Hole

WBL 250 + SR (1100-1600)

See also Ector Co.

TAG

WBL 250 + SR (1200-1550)

TAG

**•sa through shallow
•e cases**

WBL 250 + SR (1200-1550)

TAG

**•sa through shallow
•e cases**

WBL 250 + SR (1150-1600)

TAG

**•sa through shallow
•e cases**

WBL 250 + SR (1250-1750)

TAG

gs in Open Hole

WBL 200 + SR (900-1400)

See also Ector Co.

(CF, GL, SA, Tubb, 5700' WA, Spraberry
7200' have been commingled & renamed to
Martin Consolidated (4199-7923))
TAG

~~osa through shallow
e cases~~

WBL 250 + SR (1150-1500)

TAG

WBL 300 + SR (1350-1750)
18 NE Andrews

TAG

~~osa through shallow
e cases~~

WBL 300 + SR (1200-1700)
(commingling 6935-12207 in some
wells)

TAG

WBL 300 + SR (1200-1600)

Yates top est.

gs in Open Hole

WBL 250 + SR(1100-1750) Andrews Co. only
WBL 300 in Martin Co. only
active CO2 flood - TAG

(commingling 6935-12207 in some wells)

WBL 300 + SR (1300-1700)

TAG

Yates top est.

WBL 250 + SR (1000-1400)

16 SW Andrews

(CF, GL, SA, Tubb, 5700' WA, Spraberry 7200' have been commingled & renamed to Consolidated (4199-7923))

TAG

Yates top est.

WBL 250 + SR (1175-1700)

TAG

**osa through shallow
e cases**

WBL 250 + SR (1300-1750)

TAG

gs in Open Hole

WBL 250 + SR (1250-1600)

WBL 300 + SR (1150-1550)

TAG

WBL 250 + SR (1000-1350)

TAG

**osa through shallow
e cases**

WBL 250 + SR (1200-1550)

TAG

**osa through shallow
e cases**

WBL 350 + SR (1350-1850)

TAG

gs in Open Hole

WBL 300 + SR (1500-1850)

TAG

WBL 250 + SR (1350-1700)
Combining Wolfcamp & Penn to Wolfcamp
Consolidated

TAG

~~ssa through shallow~~
~~se cases~~

WBL 250 + SR (1000-1500)

SA top est. - TAG
Yates top est.

~~ssa through shallow~~
~~se cases~~

WBL 300 + SR (1150-1550)

WBL 250 + SR (1350-1650)

TAG

~~ssa through shallow~~
~~se cases~~

gs in Open Hole

WBL 250 + SR (1150-1500)

TAG
Yates top est.
~~ssa through shallow~~
~~se cases~~

WBL 300 + SR (1000-1400)

TAG

~~osa through shallow
e cases~~

WBL 250 + SR (1350-1650)

Yates top est.

~~osa through shallow
e cases~~

WBL 300 + SR (1150-1550)

TAG

~~osa through shallow
e cases~~

gs in Open Hole

WBL 250 + SR (1350-1700)

TAG

osa through shallow
e cases

SA tops est. - TAG

Yates tops est.

Borden County**11/26/12**

Note: Waterboard ranges 100-400 over county. Be aware of extreme elevation changes at edges of caprock. Recommend requiring individual well WBL. San Andres fm exists over much of County. Productive in JoMill area.

Verify no San Andres production water flows, disposal when approving plugging procedure.

If just South of Lake JB Thomas - see Von Roeder field reqrmts

*Denotes a non productive formation

Field Name	Formations	Fm Tops	Remarks
Borden	Carmack	7000	
	Spra*	6200	
	SA*	3400	TAG
	Yates*	2400	
Clara Good	Fuss	9700	
	SA	3000	TAG
	Yates*	1600	
Clayton Ranch	Strawn	9926	
	Spra	5500	
	SA*	3000	TAG
	Yates*	1600	
Clinta	Str	8500	WBL 300
	Spra	5500	strong waterflows in Wfcp at 5100
	SA	3000	TAG
	Yates*	1500	
Dunigan	Ell	8700	
	Str	8400	
	Spr	5100	
	SA	2600	TAG
	Yates*	1100	
Escondido	Strawn	7722	WB 150
	Penn*	7517	
	Wolf*	7120	
	Dean*	6875	
	SA*	2400	TAG
	Yates*	1273	

Verify no San Andres production water flows, disposal when approving plugging procedure.

Fluvanna			See also Scurry Co.
	Ell	8300	
	Miss/Str Lo	8050	
	Str Up	7700	
	Spra	5500	
	SA	4200	TAG
	Yates*	1200	
Fluvanna, SW	Ell	8300	
	Miss	8100	
	Str	7700	
	Spra	5600	
	SA	4200	TAG (Commercial Disp into SA)
	Yates*	1200	
Fumar	Fuss	9721	WB 150
	Spra*	5860	(Rustler at 1237')
	SA*	3060	TAG
	Yates*	1750	
Garner	Clearfork	4100	WB 450
	SA*	2000	TAG
	Yates*	950	
Good	Fuss	9600	
	Cany	7900	
	Spra	5800	
	SA	3000	TAG
	Yates*	1600	
Jo-Mill	Fuss	10050	
	Cany	7900	inactive
	Spra	6700	active waterflood
	Clfk	4500	
	SA	3000	TAG
	Yates*	1600	
	SR	1200+/-	TAG all SR or shoe plugs in OH, make up water zone

Verify no San Andres production water flows, disposal when approving plugging procedure.

Jo-Mill, S.

SA	3700	TAG
Yates*	1600	

Just Right

Ellen	8452	
Strawn*	8100	
SA		TAG

Lamb

Spra	6300	
Yates*	1800	

Luck-Pot

Fuss	9650	
CanRf	8200	
Spra	6700	
SA	3000	TAG
Yates*	1700	strong water flows

Lucy

Miss	8300	
Penn	7600	
Wich-Alb	5600	
Clfk	4000	
Yates*	1200	

Lucy, N.

Penn	7700	
Yates*	1200	

Miller

Spra	4700	
Yates*	1300	

Myrtle

Str, Lo	8050	Inactive
Penn	7600	
Spra	5700	Inactive
SA	2700	TAG
Yates*	1100	

**Verify no San Andres production water flows, disposal when
approving plugging procedure.**

Pancho-Mag, SW	Canyon	7600	WB 275
	Spra*	5400	
	SA*	2800	TAG
	Yates*	1500	
Peg's Draw	Ellenburger	8100	WB 300
	Spra	5600	
	SA*	2800	TAG
	Yates*	1700	
	Rustler*	1100	
Reinecke	Cisco	6700	Active CO2 Flood
	Wfcp	6400	
	Leonard Lime	5400	
	Clfk	4200	
	SA	2400	TAG
	Yates*	1200	
Seven J	Ell	8300	
	Str	7700	
	Yates*	1200	
Von Roeder	Canyon Reef*	6683	
	Wolfcamp	6413	
	Leonard Lime	5400	
	Spra*	4428	
	Clearfork	3200	
	SA*	2050	TAG
	Yates*	1000	
			due to a shallow disposal well south of Lake JB Thomas in areas of Secs. 55, 56, 69, & 70 Blk. 25, H&TC RR Co. must perf & sqz 600-400' + all shoe & WB plugs

Verify no San Andres production water flows, disposal when approving plugging procedure.

Wicker

Str	7900
Yates*	1200

Cochran County**10/4/12**

Note: **Waterboard ranges 350-450 over county.**
***Denotes a non productive formation**

Field Name	Formations	Fm Tops	Remarks
Bonanza	SA	4800	WBL 350
	Yates*	2900	TAG
Buckshot	Fuss	11300	WBL 400
	SA	4900	TAG
	Yates*	2850	
Dean	Fuss	11400	
	Str	10000	
	Cisco Lm	9300	
	Abo	7400	
	Wich Alb	7300	
	SA	4800	active waterflood - TAG
	Yates*		
Landon			WBL 400
	Dev	10600	
	Str	10300	
	SA	5050	TAG
Levelland	Yates*	2900	
	Casings even if circ have gaps in cement - Proven		WBL 400 to 450
	Str	9900	see also Hockley Co.
	Cisco	9300	
	Abo	7400	
	Wich	7300	
	SA	4800	active waterflood - TAG OK to set CIB above P1 zone >100' above perfs
	Yates*	2600	TAG, perf and squeeze even if circula
	Red Bed/SR	1100	

Write on bottom of W-3A - if can sqz Yates plug then must perf & sqz #sxs @ 1100',

If can sqz 1100' plug, then must perf & sqz # sxs shoe&wbl plug.

Slaughter	Casings even if circ have gaps in cement - Proven	WBL 400 to 450 see also Hockley Co.
Wfcp	9300	
Clfk	7150	
SA	4900	active CO2 flood - TAG
Yates*	2600	TAG, perf and squeeze even if circula
Red Bed/SR	1100	

Write on bottom of W-3A - if can sqz Yates plug then must perf & sqz #sxs @ 1100',
If can sqz 1100' plug, then must perf & sqz # sxs shoe&wbl plug.

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Cottle County**6/21/12**

Note: **Waterboard ranges 150-350 over county.**
***Denotes a non productive formation**

Field Name	Formations	Fm Tops	Remarks
Cee Vee	Can y *CJ	4550 3000	TAG
Chalk	Atoka Canyon *CJ	6400 4000 2700	TAG
Independent	Bend Congl Atoka Canyon *CJ	6300 6000 4000 2600	TAG
Paducah (7400)	Congl *Str *Canyon *CJ	7700 6100 5700 2600	TAG
Prothro	Can y *CJ	4300 2800	TAG
Providence	Atoka Canyon *CJ	6000 4000 2600	TAG
Tippen	Congl *CJ	6750 2700	TAG
Tippen, S.	Congl *CJ	6500 2700	TAG
Wilie	Flippen	3200	

*CJ

2800

TAG

Crane County			2/14/12
Note:	Waterboard varies over county. Waterboard may protect Santa Rosa, San Andres, Rustler		
	*Denotes a non productive formation		
	TAG ALL Surface Shoes in OH		
Field Name	Formations	Fm Tops	Remarks
Abell			WBL 450 + SA (2100-3100)
			See also Pecos Co.
	Ell	5400	
	Mon	5300	
	Dev	5100	
	Perm Gen	3900	
	Clfk/Glor	3200	
	SA	2100	Usable quality water zone also - TAG
	Grbg	2100	
Armer			WBL 350
	Wfcp	6350	
	WA	5400	
	Tubb	4800	
	Clf	4400	
	Glor	4200	
	SA*	3100	TAG
Atapco			WBL 500 + SA (2200-3000)
	Dev	5700	
	Tubb*	4300	
	Q*	2100	
	Yates*	1600	
Bar Mar			WBL 450 + SA (2100-3100)
	Dev	5200	
	Tubb	3900	
	Clfk	3200	
	SA	2100	TAG
	Yates*	1200	
Bayview			WBL 400 + SA (2100-3000)
	Glor	3000	
	SA*	2100	TAG

	TAG ALL Surface Shoes in OH		
Block 31			WBL 650
	Dev	8800	
	Cisco	7400	
	Penn Up	7200	
	Glor*	4100	
	Grbg	3100	
	Q	2900	
	Yates*	2000	
C-Bar			WBL 800
	Tubb	5300	
	SA	3500	TAG
Concho Bluff			WBL 250 + SR (800-1250)
			also in Ector County
	Q	4000	
	Yates*	2500 to 3000	note deeper Y on caprock
Cordona Lake			WBL 600
	Dev	5500	
	Tubb*	4000	
	Sang*	3700	
	SA*	2700	TAG
	Yates*	1300	
Costa			WBL 450 + SR(2100-3000)
	Tubb	4200	
	Clfk	3300	
Crane Cowden			WBL 450
	SA/Grbg	2300	TAG
Crawar			WBL 550
			see also Ward Co.
	Ell	7900	
	Wad	7600	
	Fuss	6400	
	Dev/ lo Perm	6200	
	WA/Wfcp	6000	
	Tubb	4600	
	Glor	4000	
	SA	3000	TAG

	TAG ALL Surface Shoes in OH		
Crossett			WBL 350
			also Upton, Crockett Counties
	Dev	5400	active CO2 Flood
	Det	4900	
	Clfk	2900	
	SA*	2000	TAG
Dawson			WBL 400
	Dev	5100	
	Clfk	3600	
	SA*	2000	TAG
Dune			WBL 700 to 950
	Wfcp	7300	
	SA/Grbg	3300	TAG
	Yates*	1600	
Edwards 04			WBL 250 + SR (800-1200)
	Ell	11700	
	Dev	9700	
	Str	8600	
	Cisco	8000	
	Bend	7700	
Howard-Glasscock			WBL 325
	Consolidated foll. Fields		See also Crane, Glasscock, Howard,
	Howard-Glasscock,		Midland, Mitchell, and Sterling Co.
	Howard-Glasscock-Glorieta,		Note: downhole commingle is
	Howard-Glasscock-Clearfork, MI)		common in many wells
			(Yates - Wichita Albany) Mostly
	Clfk	3400	cable tool holes, little cement
	Glor	2700	
	SA	1850	TAG
	7 Riv	1300	
	Yates	1250	
			(depths may vary from Howard Co.)
Jax			
	Dev	5400	
	SA	2000	TAG

	Yates*	2000	
	TAG ALL Surface Shoes in OH		
Roberdeau			WBL 400
	Tubb	3350	
	Clfk	3000	
	SA*	2000	TAG
Running W			WBL 600 N to 500 E
	Waddell	6100	
	Tubb	4300	
	San Angelo	3700	
	SA*	2900	TAG
	Yates*	1600	
Sandhills			WBL 500 to 800 use current WBL
			Depths variable, use log tops if available
	Wfcp	5000	
	Tubb	4500 to 4200	Tubb & McKnight are commingled in some
	Sang	3600	cases.
	McKnight/SA	3400 to 3000	
	Judkins/SA	3600 to 3000	TAG
	Yates*	1900 to 1400	
Troporo			WBL 300
	Dev	5400	
	SA*	3400	TAG
	Queen	2200	
Tucker	Dev	5400	
	Perm Gen*	4200	
	Clfk/Glor*	3200	
	SA*	2500	TAG
Univ.Waddell			WBL 850
	Dev	8400	
	Wfcp	7500	
	Tubb	5400	

	SA*	3400	TAG
	TAG ALL Surface Shoes in OH		
W. E. R.	Clfk/Glor	3000	WBL 400'
	SA	2100	TAG
Waddell			WBL 800
	Dev	8900	
	SA/Grbg	3100	TAG

Crosby County**9/27/12*****Denotes a non productive formation**

Field Name	Formations	Fm Tops	Remarks
Forbes			WBL 100
	Glor	3600	
	SA	3000	TAG
	Yates*	1350	
Ha-Ra			WBL 300
	Clfk	4300	
	SA*	3000	TAG
	Yates*	1700	
Hoople			WBL 300
	Clfk	4100	
	SA*	3000	TAG
	Yates*	1700	
Ridge			WBL 300
	Clfk	3000	
	SA*	2900	TAG
	Yates*	1700	
Ridge, South			WBL 100 to 250
	Clfk	3800	
	Glor	3700	
	SA*	3000	TAG
	Yates*	1600	
WTG	Glorieta	3200	
	SA*	2000	TAG
	Yates*	1000	

Culberson County**6/21/12*****Denotes a non productive formation**

Field Name	Formations	Fm Tops	Remarks
COV			WBL 100
	Morrow	11800	
	Atoka	11600	
Ford			WBL 300 see also Reeves Co.
	Ch/Brushy Cany	5400	
	Del	2700	
Geraldine			WBL 350 see also Reeves Co.
	Del/Ch Cany	3400	
	Ford-Del	2500	
King Edward			WBL 600
	Sil	15400	
	Str	12800	
	Wfcp	9100	
	Bone Spr	6150	
	Ch Cany	3600	
	Del	2600	
Rustler Hills			WBL base Rustler?? inactive
	Rustler	450	
Screwbean			WBL 300 see also Reeves Co.
	Del	2600	
Signal Peak			
	Miss	8900	
	Wfcp	7900	

Str 5750 inactive

Dawson County**3/12/13**

Note: **Waterboard ranges 250-450 over county.**
***Denotes a non productive formation**

Field Name	Formations	Fm Tops	Remarks
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Ackerly			WBL 300, 400 also see Martin Co.
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	Penn	9400	inactive zone
	Dean	8100	
	SA*	3600	TAG
	Yates*	2100	

Adcock			
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	Siluro-Devq	10600	inactive zone
	Miss	10300	inactive zone
	Spra	7500	
	SA*	3850	TAG
	Yates*	2100	

Block 35			
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	Dean	8400	
	SA*	3900	TAG
	Yates*	2100	

Boch			
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	Spra	8100	
	SA*	4150	TAG
	Yates*	3750	

Britt			
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	Spra	7300	
	SA*	3800	TAG
	Yates*	2700	

CMI			
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	Spra	7700	
	SA*	4800	TAG
	Yates*	2700	

Dupree

Fuss	11600	
Spra	7800	
SA*	4800	TAG
Yates*	2700	

Felken

Spra	7200	
Up Spra	6800	
SA*	3500	TAG
Yates*	2100	

Gin

Sil	11800	inactive
Miss	11400	
Spra	7900	
SA*	4100	TAG
Yates*	2700	

Key

Penn Rf	8600	inactive
Spra	7700	inactive
Up Spra	6800	
SA*	3600	TAG
Yates*	2300	

Knight & Miller

Fuss	11550	
Cany	10200	
SA*	4800	TAG
Yates*	2450	

Lamesa Farms

Siluro-Dev	12150	
Miss	11200	
SA*	4900	TAG
Yates*	3000	

Lamesa, W

Dev	11600	inactive
Miss	11200	
Spra	7900	
SA*	4000	TAG
Yates*	2500	

Mungerville	Canyon	11600	
	Penn Reef	8400	
	Spra	7500*	
	Yates	3000	

Olon Ernest	Spra	7391	
	SA	4170	TAG
	Yates	2420	

Patricia	Fuss	12000	
	Spra	8000	
	SA*	4200	TAG
	Yates*	2800	

Sean Andrew	Penn	8200	WB 375
	SA	4500	TAG
	Yates	3000	

Snowden	Spra	7200	
	SA*	3500	TAG
	Yates*	2100	

Spraberry	Spra	6400	
	SA*	3700	TAG
	Yates*	2200	

Spraberry Deep	Lo Spra	7500	
	Up Spra	6400	
	SA*	3700	TAG
	Yates*	2200	

Chevron Spraberry Deep Unit

Tex-Hamon

Mont	11600	
Fuss	11500	
Lo Miss	11000	
Cany	10000	
Dean	8900	
SA*	4400	TAG
Yates*	2300	

& West Spraberry - need to add
water protection for municipal
wells 1450' & TAG

Triple D

Penn Rf	8400	
SA*	4800	TAG
Yates*	2300	

Walls

Wfcp	8550	
SA*	4000	TAG
Yates*	2550	

Welch

SA	4800	active CO2 Flood - TAG
Yates*	2600	

Dickens County**6/21/12**

Note: **Waterboard ranges 200-350 over county.**
***Denotes a non productive formation**

Field Name	Formations	Fm Tops	Remarks
Croton Creek	Tann	4500	WBL 200
	CJ*	2600	TAG
Duck Creek	Tann	4550	WBL 300
	CJ	2600	TAG
Gilpin	Tann	4400	WBL 350
	CJ*	2600	TAG
Girard	Tann	4300	WBL 300
	CJ*	2500	TAG
Matador-Williams	Tann	3950	WBL 250
	CJ*	2500	TAG
Tumbleweed	Lo Tann	3700	WBL 250
	CJ*	2500	TAG
Tumbleweed, NW	Lo Tann	4000	WBL 250
	CJ*	2600	TAG
White River	Cany Rf	6700	WBL 100
	Atkins	6250	

CJ*

2950

TAG

Ector County**3/20/13**

Note: **Waterboard requires SR protection**
***Denotes a non productive formation**

Field Name	Formations	Fm Tops	Remarks
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Andector			WBL 250 + SR(800-1400)
	Ell	8500	
	McKee*	7700	
	Clfk*	5500	
	SA/Grbg*	3900	TAG
	Yates*	2700	

Possible Yates Gas Pressure migrating to the Santa Rosa through shallow Surface Casing - separate all water board plugs in these cases

Bourland			WBL 250 + SR(900-1400)
	SA	3800	TAG
	Yates*	2600	est top

Cowden and			See also Andrews Co.
Cowden, North			WBL 300 + SR (1150-1550)
	Str	9200	
	Cany	8600	
	Holt	5100	
	SA/Grbg	4200	TAG
	Yates*	2600	

Possible Yates Gas Pressure migrating to the Santa Rosa through shallow Surface Casing - separate all water board plugs in these cases

Cowden, South			WBL 250 + SR(1000-1450)
	Ell	13600	
	Cany	8500	
	Grbg	4400	
	Q	4200	
	Yates*	2900	
	Btm Santa Rosa	1450	if not in waterboard letter

Possible Yates Gas Pressure migrating to the Santa Rosa through shallow Surface Casing - separate all water board plugs in these cases

Cuerno Largo

Penn	8600	
SA*		TAG
Yates*		

Donnelly

SA/Grbg	3800	WBL 250 + SR(1100-1400)
Yates*	2900	TAG
		est top

Possible Yates Gas Pressure migrating to the Santa Rosa through shallow Surface Casing - separate all water board plugs in these cases

Double H

Wfcp	8200	WBL 250 + SR(1000-1400)
Grbg	4400	
Yates*	2900	est top

Edwards

Cany	8900	WBL 250 + SR(1000-1400)
Glor*	5900	
SA*	4400	TAG
Grbg	4200	
Yates	3000	
Bttm Santa Rosa	1400	if not in waterboard letter

Fasken

Penn	10200	WBL 300 + SR(1050-1600)
Wfcp	8400	See also Andrews Co.
Spra*	7300	
SA*	4400	
Yates*	2600	TAG

Ford, W. T.

Ell	12000'	
W/A	7000'	
SA	3800	TAG
Grbg	3550	
Yates*	2500	

Foster

SA/Grbg	4300	WBL 225 + SR(1000-1500)
Yates*	2800	TAG

Possible Yates Gas Pressure migrating to the Santa Rosa through shallow Surface Casing - separate all water board plugs in these cases

Goldsmith		WBL 200 + SR (900-1400)
		See also Andrews Co.
Sil/Penn	8000	
Dev	7600	
Clfk	5600	
Holt	5000	
SA/Grbg	4000	TAG
Yates*	2700	

Possible Yates Gas Pressure migrating to the Santa Rosa through shallow Surface Casing - separate all water board plugs in these cases

Harper		WBL 250 + SR(850-1200)
Ell	12400	
Dev	10000	
Strawn	9000	
Glor	5200	
SA/Grbg	4300 to 3800	TAG
Yates*	2600	

Possible Yates Gas Pressure migrating to the Santa Rosa through shallow Surface Casing - separate all water board plugs in these cases

Headlee		WBL 250 + SR(1100-1500)
		see also Midland Co.
Ell	13100	(commingling 7290-11928 in
Dev/Fuss	11700	some wells)
Cany/Str	10300	
Wfcp	9100	
Spra*	7700	
SA*	4200	TAG
Yates*	3000	est top

Johnson		WBL 250 + SR (1200-1500)
Wfcp	8500	
Clfk	5700	
Glor	5450	
Holt	5200	combine Glor/Holt plugs
SA/Grbg	4000	TAG
Yates*	2900	

Possible Yates Gas Pressure migrating to the Santa Rosa through shallow Surface Casing - separate all water board plugs in these cases

Jordan

WBL 800
see also Crane Co.

Ell	8600	
Penn	8000	
Fuss*	7400	
Wfcp*	7000	
Glor*/Clfk	4400	
SA/Grbg	3400	TAG
Yates*	2000	

Lawson

SA	4300	WBL 250 + SR(900-1350)
Yates*	2500	TAG

Possible Yates Gas Pressure migrating to the Santa Rosa through shallow Surface Casing - separate all water board plugs in these cases

Moose

WBL 250 + SR(700-1350)
Also Crane and Midland Counties

Q	4370	
7 Riv	3970	
Yates*	2000	
Bttm Santa Rosa	1350	if not in waterboard letter

Moss

SA/Grbg	3500	WBL 250 + SR(750-1100)
Yates*	2000	TAG

Possible Yates Gas Pressure migrating to the Santa Rosa through shallow Surface Casing - separate all water board plugs in these cases

Penwell

WBL 750

Ell	8600	
Wich Alb	6500	
Glor	4500	
SA/Grbg	3500	TAG
Q	3000	
Yates*	2100	

Sallie Ann

(combo Atoka & Strawn also)

see plugs near location in that field

TXL		WBL 225 + SR (900-1250)
Ell	9600	
Sil	8450	Commingled
Dev	7700	Commingled
Wfcp	7500	Commingled
Tubb	6100	
Clfk Up	5600	
SA	4600	TAG
Yates*	2700	

Possible Yates Gas Pressure migrating to the Santa Rosa through shallow Surface Casing - separate all water board plugs in these cases

Three Leagues		WBL
Clfk	5500	
SA*		TAG
Yates*		

Three Nags		WBL 250 + SR (1000-1400)
Ell	12600	
SA/Grbg*	4300	TAG
Yates*		

Possible Yates Gas Pressure migrating to the Santa Rosa through shallow Surface Casing - separate all water board plugs in these cases

Wheeler		WBL 900
Silurian	10400	see also Winkler Co.
Wfcp	7600	
SA*	4150	TAG
Yates*		

Yarbrough-Allen		WBL 700
Ell	10500	
Dev	8500	
Wfcp*	6900	
SA*	4200	TAG
Yates*		

York		WBL 250 + SR (1000-1400)
Ell	12200	
Connell	12000	
Grbg	4400	commingled
Q	3000	commingled

Gaines County**6/21/12**

Note: **Waterboard ranges 250-450 plus SR over most of county.**

***Denotes a non productive formation**

TAG ALL YATES

Field Name	Formations	Fm Tops	Remarks
Adair	Wfcp	8400	See Terry Co.
	SA	4700	TAG
	Yates	3050	TAG
Amrow			WBL 350 + SR (1500-2000)
	Dev	12500	
	Miss	11500	inactive
	Str	10900	
	SA*	5300	TAG
	Yates*	3300	TAG
Bale			WBL 300 + SR (1600-2100)
	Dev	11800	
	Str	11000	
	Wfcp	9500	
	SA*	5400	TAG
	Yates*	3300	TAG
Block A-7			WBL 300 + SR (1650-1950)
	Dev	11000	
	Miss	10400	
	SA*	5000	TAG
	Yates*	3300	TAG
Brown			WBL 300 + SR (1650-1950)
	Wich Alb	7900	
	Glor	5950	
	SA*	5000	TAG
	Yates*	3150	TAG

TAG ALL YATES			
Brumley		WBL 400 + SR (1350-1650)	
	Wich Alb	7500	
	Lo Clfk	7100	
	SA*	4400	TAG
	7 Riv	3400	
	Yates*	2900	TAG
Cedar Lake		WBL 300	
	Sil	12300	
	SA	4500	active CO2 flood - TAG
	Yates	2800	TAG
Champmon		WBL 350	
	Dev	12700	
	Str	11100	
	SA*	4800	TAG
	Yates*	3000	TAG
D.E.B.		WBL 350 + SR (1600-2100)	
	Wfcp B	9350	
	Wfcp	9100	
	SA*	5000	TAG
	Yates*	3200	TAG
Dempsey Creek		WBL 250 + SR (1150-1550)	
	SA	4300	TAG
	Yates*	2900	TAG
Flanagan		WBL 250 + SR (1300-1700)	
	Ell	12100	
	Dev	10300	
	CF	6300	Commingled
	Glor	5500	Commingled
	SA*	4700	TAG
	Yates*	3200	TAG
G-M-K		WBL 300	
	SA	5500	TAG

	Yates	3300	TAG
TAG ALL YATES			
George Allen	SA	4900	TAG
	Yates*	3000	TAG
			WBL 375 + SR (1750-2050)
Harris	Glor	5800	
	SA	4500	TAG
	Q	4000	
	Yates	2800	TAG
Huat			WBL 375
	Cany	10400	
	Lo Wfcp	9900	
	Wfcp	9800	
	Spra	8600	
	SA*	5000	TAG
	Yates*	3300	TAG
Jenkins			WBL 300 + SR (1350-1700)
	Dev	9100	
	SA	4500	TAG
	Yates*	3000	TAG
Jenkins, N			WBL 300 + SR (1350-1650)
	Dev	9600	
	Cany	8500	
	Clfk	6900	
	SA*	4500	TAG
	Q	4100	
	Yates*	3000	TAG
Riley, North	Clfk	6400	
	SA	4900	TAG
	Y	2600	TAG Area has yates charge @ 400-500' between 2 water zones.
Robertson	Clfk	6000	WBL
	SA	4700	TAG
	Yates*	3000	TAG

TAG ALL YATES			
Russell			WBL 350 + SR (1650-1950)
	Wich Alb	7700	Clearfork & WA are consol.
	Clfk	6600	
	Glor	5900	
	SA*	4850	TAG
	Yates*	3100	TAG
Russell, N			WBL 350 + SR (1650-2000)
	Dev	9900	
	Penn	9100	disp zone
	Clfk	6600	
	Glor	5900	
	SA*	4900	TAG
	Yates*	3100	TAG
Seminole			WBL 250 + SR (1350-1900)
	Dev	11450	
	Wfcp Lm	9200	
	Wfcp Rf	9150	
	Wfcp	9100	
	Sang	6400	
	SA	5000	active CO2 flood - TAG
	Yates	3200	TAG
Seminole, E			WBL 300
	SA	5400	TAG
	Yates*	3200	TAG
Seminole, N			WBL 300 + SR (1500-2000)
	Dev	11300	
	Wfcp	9000	
	SA	4900	TAG
	Yates*	3200	TAG
Seminole, W			WBL 300 + SR (1600-1900)
	Dev	10900	
	Dev FB2	10500	
	Wfcp FB2	9100	inactive
	Lndr	8700	
	SA	4900	TAG
	Yates*	3200	TAG

TAG ALL YATES

Tedbit			WBL 300
	SA	5000	TAG
	Yates*	3000	TAG
Tex-Mex			WBL 300 + SR (1200-1450)
	SA	4300	TAG
	Yates*	2850	TAG
Tex-Mex, SE			WBL 400 + SR (1350-1650)
	Wich-Alb	7400	
	SA	4200	TAG
	Yates*	2900	TAG
Tex-Pac			WBL 300 + SR (1650-1950)
	Clfk	7700	
	SA*	5000	TAG
	Yates*	3200	TAG
Tex-Sin			WBL 325
	Dev	12200	
	Wfcp	9000	
	Clfk	6600	
	SA*	4600	TAG
	Yates*	2800	TAG
ULS			WBL 300
	SA	4900	TAG
	Yates*	3000	TAG

Garza County**2/6/13**

Note: Waterboard ranges 100-300 over county.
Note: Yates fm covers entire county, is very prolific, heavy salt water and gas flows.
TAG ALL YATES PLUGS.
 *Denotes a non productive formation

Field Name	Formations	Fm Tops	Remarks
A-F-G			WBL
	Clfk	3400	inactive zone
	SA*	2100	TAG
	Yates*	1100	TAG
Barron Ranch			
	Ell	7700	inactive zone
	Str	7100	
	SA*	1700	TAG
	Yates*	650	TAG
Close City			
	Miss	8600	
	Str	8350	
	Spra	6700	
	Glor	4000	
	SA	3500	TAG
	Yates*	1500	TAG
Coulter			
	Spra	5200	
	SA	2300	TAG
	Yates*	1200	TAG
Cross			
	Glor	3100	
	SA*	1900	TAG
	Yates*	1000	TAG
Dorward			
	SA	2200	TAG
	Yates*	1200	TAG

TAG ALL YATES PLUGS.

Duffy Peak

Glor	2900	
SA*	1850	TAG
Yates*	1100	TAG

Garza

Glor	3500	
SA	2700	CO2 flood - TAG
Yates*	1100	TAG

H & L

Glor	3300	inactive
SA*	1800	TAG
Yates*	1100	TAG

Happy

Ell	8200	
Str	7700	
Spra Lm	4900	
SA*	2200	TAG
Yates*	1200	TAG

Huntley

Glor	3900	
SA	3400	TAG
Yates*	1200	TAG

Justiceburg

Glor	2450	
SA*	1900	TAG
Yates*	1200	TAG

P. H. D.

Glor	3900	inactive
Basal SA	3550	
SA	3500	TAG
Yates*	1200	TAG

TAG ALL YATES PLUGS.

Post	Glor	2500	
	SA	1900	TAG
	Yates*	700	TAG

Red Loflin	Ell	8100	
	Str	7600	
	SA*	2300	TAG
	Yates*	1200	TAG

Rocker A	Ell	8100	
	Str	7700	
	Wich	4750	
	Spra	4250	
	Clfk	3200	
	Glor	3000	
	SA	2000	TAG
	Yates*	1000	TAG

Sims	Glor	3600	
	SA	3000	TAG
	Yates*	950	TAG

Storie	Ell	9100	inactive
	Str	8300	
	Glor	4100	
	SA	3500	TAG
	Yates*	1650	TAG

Three Way	Miss	8600	
	Str	8350	
	Spra	6700	
	Glor	4000	
	SA	3500	TAG
	Yates*	1500	TAG

TAG ALL YATES PLUGS.

Tobe

Miss	7700	
Str	7400	
Wfcp	4600	
SA*	1800	TAG
Yates*	1200	TAG

Glasscock County**6/21/12*****Denotes a non productive formation**

Field Name	Formations	Fm Tops	Remarks
Apple Creek			WBL 350
	Fuss	9100	
	Str	7900	
	Wfcp	7700	
	SA*	2200	TAG
Blalock Lake			WBL 300
	Str	9900	
	Wfcp	7900	
	Spra*	6100	
	Clfk*	5200	
	SA*	3600 NW to	2700 SE TAG
Calvin, N			WBL 400
			Field in District 7C
	Dean	7500	
	SA*	3200	TAG
	SR	1000	
Cobra			WBL 250
	Wfcp	7700	
	Dean	7500	
	Spra	6100	
	SA	2900	TAG
Clyde Reynolds			WBL 400
	Wfcp	7800	
	Clfk	2800	
	Q/SA	1800	TAG

Deadwood, S		WBL 300
Fuss	10000	
Str	9000	
Wfcp	5600	
SA	2200	TAG
Dewey Lake		WBL 250
Str	10500	
Atoka	10100	
Wfcp*	8200	
Spra*	6100	
Clfk*	5300	
SA*	3300	TAG
Fools Creek		WBL 400
Clfk	2650	
Glor	2450	
SA	2000	TAG
Q	1500	
Garden City		WBL 350
Fuss	9700	(in south & west, combo Penn,
Str	9000	Strawn & Wolf - to Wolfcamp
Penn	8300	field)
Wfcp	7800	
Clfk*	5600	
SA*	2250	TAG
Gordon Street		WBL 250, 7 SE Stanton
Wfcp	8600	
Spra	6800	
SA	3500	TAG
Yates	2050	
HEI		WBL 300
Penn	10100	
Wfcp	9200	
SA*	3600	TAG

Hillger	SA	2900	WBL 300 TAG
Howard-Glasscock			WBL 325 See also Crane, Glasscock, Howard Midland, Mitchell, and Sterling Co. Note: downhole commingle is common in many wells (Yates - Wichita Albany) Mostly cable tool holes, little cement
	Consolidated foll. Fields		
	Howard-Glasscock,		
	Howard-Glasscock-Glorieta,		
	Howard-Glasscock-Clearfork, MI)		
	Clfk	3400	
	Glor	2700	
	SA	1850	TAG
	7 Riv	1300	
	Yates	1250	
			(depths may vary from Howard Co)
Iva Lee			WBL 350, 8 SW Garden City
	Clfk	5200	
	Grbg	2850	
Patterson Lake			WBL 450
	Wfcp	8400	
	Spra	6700	
	Clfk	5600	
	SA*	2700	TAG
Powell			WBL 250
	Wfcp	8000	
	Spra*	6500	
	Clfk	5700	
	SA*	3400	TAG
Roberta	Q	1600	WBL

St Lawrence WBL 400

Str	9900
Wfcp*	7900
Wich Alb	7400
Spra*	6000
Clfk*	5300
SA*	3100

TAG

Spraberry WBL 250 to 400

Spra/Dean	6700	Commingled, one plug o.k.
Clfk	5600	Clfk reqd in SW Glasscock only
SA*	4000 NW to	2700 SE - TAG
SR	1000	

Zant WBL 300

Wfcp	8600
Spra*	6700
SA	3600

TAG

Hale County**6/21/12*****Denotes a non productive formation**

Field Name	Formations	Fm Tops	Remarks
Abernathy	Penn	9100	WBL 250
	Yates*	1900	inactive
Anton-Irish	Clfk	5300	WBL 275
	SA*	3900	active CO2 flood
	Yates*	1900	TAG
Lutrick	Cisco	7900	WBL 450
	Yates*	1900	
Petersburg			WBL 450
	Wfcp	6900	
	Yates*	1800	

Hockley County**10/4/12****Note: WBL ranges 375-450 over entire county.*****Denotes a non productive formation****TAG ALL YATES PLUGS**

Field Name	Formations	Fm Tops	Remarks
Clauene	Clfk	6300	
	SA	5000	TAG
	Yates*	1900	TAG
D-L-S	Wfcp	8500	inactive
	Lo Clfk	7400	
	Clfk	6500	
	SA	5100	TAG
	Yates*	2950	TAG
Hamilton	Wich Alb	7900	
	Clfk	6400	
	SA*	4700	TAG
	Yates*	2600	TAG
Kingdom			WBL 400' +/- see also Terry Co.
	Abo	7500	
	Clfk	7100	
	SA	4800	TAG
	Yates	2600	TAG
Levelland	Casings even if circ have gaps in cement - Proven		WBL 400 to 450 see also Cochran Co.
	Str	9900	
	Cisco	9300	
	Abo	7400	
	Wich	7300	
	SA	4800	active waterflood - TAG OK to set CIB above P1 zone >100' above perfs
	Yates*	2600	TAG, perf and squeeze even if circula
	Red Bed/SR	1100	

Write on bottom of W-3A - if can sqz Yates Yates plug then must perf & sqz #sxs @ 1100',

If can sqz 1100' plug, then must perf & sqz # sxs shoe&wbl plug.

TAG ALL YATES PLUGS

Linker	Casings even if circ have gaps in cement - Proven	WBL 400 to 450
	Str 9900	
	Cisco 9300	
	Abo 7400	
	Wich 7300	
	Clfk 7000	
	SA 4800	active waterflood - TAG OK to set CIB above P1 zone >100' above perfs
	Yates* 2600	TAG, perf and squeeze even if circulation is lost
Write on bottom of W-3A - if can sqz Yates plug then must perf & sqz #sxs @ 1100', If can sqz 1100' plug, then must perf & sqz # sxs shoe&wbl plug.		
Rand-Paulson		WBL 400
	Str 9900	
	Cany 9600	
	Clfk 6300	
	SA 4500	TAG
	Yates* 2400	TAG
Ropes, W		
	Cisco 9700	
	Wfcp 8700	inactive
	SA* 4900	TAG
	Yates* 2600	TAG
Ropes, E.	Clearfork 6000	
	SA* 3900	TAG
	Yates* 2600	TAG
Six Mile Pool		
	Wich Alb 6700	
	SA 4800	TAG
	Yates* 2600	TAG
Slaughter	Casings even if circ have gaps in cement - Proven	see also Cochran Co. WBL 400 to 450
	Wfcp 9300	
	Clfk 7150	
	SA 4900	active CO2 flood - TAG
	Yates* 2600	TAG, perf and squeeze even if circulation is lost
	Red Bed/SR 1100	

Write on bottom of W-3A - if can sqz Yates plug then must perf & sqz #sxs @ 1100', If can sqz 1100' plug, then must perf & sqz # sxs shoe&wbl plug.

TAG ALL YATES PLUGS

Smyer

Cany	9600	
Clfk	5900	
SA*	3700	TAG
Yates*	2500	TAG

Whitharral

Lo Clfk	6800	
SA*	4500	TAG
Yates*	2400	TAG

Yellowhouse

SA	4400	TAG
Yates*	2260	TAG

P

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Howard County**6/21/12*****Denotes a non productive formation**

Field Name	Formations	Fm Tops	Remarks
B.C.			WBL 200
	Cany	9000	
Big Spring	SA*	3200	TAG
	Atoka	9200	
	Fuss	8600	
	Cany*	8400	
	Wfcp*	7400	
	Spra*	5800	
	SA/Clfk*	3200	TAG
Caverna			WBL 200
	Lndr	6400	
Coahoma	SA*		TAG
	Miss/Fuss	8700	
	Wfcp*	6200	
	Clfk*	4200	
	SA*	2200	TAG
	Yates*	1300	
			WBL 350
DDD			
	Cany	8800	
Double B	SA*		TAG
	Cany	7200	
	Penn	6100	
	Wfcp	5400	
	Clfk	4100	
	SA*	2100	TAG

Fairview			WBL 250
	Cany	9000	
	Wfcp	7600	
	Spra	6000	
	SA*	3200	TAG
Florac			WBL 175
	Str	9300	
	Cisco	8500	
	Wfcp	7300	
	Dean	7000	
	Spra*	5800	
	SA*	3100	TAG
	Yates*	1750	
Howard-Glasscock			WBL 325
	Consolidated Fields		See also Crane, Glasscock, Howard, Midland, Mitchell, and Sterling Co.
	Howard-Glasscock,		
	Howard-Glasscock-Glorieta,		
	Howard-Glasscock-Clearfork, MI)		
	Clfk	3400	
	Glor	2700	
	SA	1850	
	7 Riv	1300	
	Yates	1250	
			Note: downhole commingle is common in many wells (Yates - Wichita Albany) Mostly cable tool holes, little cement
Hutto, S			TAG
	WBL 225		
	Wfcp	8000	
	Clfk*	5000	
	SA*	2800	TAG
	CJ	3400	TAG
	Yates*	1900	
Iatan			WBL 200
			See also Mitchell Co.
Iatan, N	Glor/Clfk	2400	
Iatan,-E. Howard	Glor/Clfk	2400	
	SA	1500	TAG

Luther			WBL 300
	Sil-Dev	9850	
	Wfcp*	7400	
	Spra*	5900	
	SA*	3200	TAG
MerMax			WBL 250
	Ell	9300	
	Fuss	9200	combine Ell & Fuss Plugs OK
	Str	8600	
	Wfcp*	6350	
	SA*	2400	TAG
	Yates*	1300	
Moore			WBL 200
	Fuss	10000	
	SA	3000	TAG
Oceanic			WBL 300
	Penn	8100	
	Spra*	6200	
	SA*	3450	TAG
Patience			WBL 300
	Fuss	10300	
	Penn	8900	
	SA*	3000	TAG
Signal Peak	Str	8100	
	Wfcp	5900	
	Clfk	2400	
	SA	1500	TAG
Snyder			WBL 100
	Note: Severe water flows in the Clfk. surface water flows at Snyder Fld Rd.		
	Clfk	2800	TAG
	SA	2300	TAG
	Yates*	1250	

Talbot			WBL 225
	Cany	8500	
	Wfcp*	7400	
	Spra*	5800	
	SA/Clfk*	3200	TAG
	Yates	1500	
Varel	SA	3080	WBL 225
			TAG
Vealmoor			WBL 350
	Penn	7400	
	Spra*	5900	
	SA*	3100	TAG
Vincent			WBL 350
	Str	7750	
	Penn	7400	
	Lo Clfk	4000	
	Up Clfk*	3300	
	Glor*	2800	
	SA*	2100	TAG
Zebulon			WBL 200
	Fuss	10200	
	SA*	3200	TAG

Kent County**6/21/12**

Note: Waterboard ranges 100-350 over county, depending on the elevation of well and depth of red beds.
 *Denotes a non productive formation

Field Name	Formations	Fm Tops	Remarks
Atkins-Fleming	Noodle Ck	4140	
	CJ*	3150	TAG
Boomerang	Penn Rf	6450	
	CJ*	3400	TAG
Brazos Bluff	Ell	7400	
	Str	6800	
	CJ*	3000	TAG
	SA	1450	active inj flood zone
Chaparral	Lo Penn	6700	
	CJ*	3200	TAG
Clairemont	Str	6600	
	Lo Penn	6450	
	CJ*	3200	TAG
Cogdell			see also Scurry Co.
	Str	7300	inactive
	Cany Rf	6650	
	Wfcp	5300	inactive
	Fuller	4900	
	CJ*	2500	TAG
	SA	1350	TAG
	Yates	700	TAG
Elam	Str	6700	

	CJ*	3100	TAG
Ida Sue			
	Ell	7600	inactive
	Lo Str	7200	
	Str	6900	
	CJ*	3400	TAG
Polar			
	Ell	7700	
	Str	7400	
	Penn	7000	
	CJ*	3000	TAG
SMS			
	Cany Rf	6550	
	Cany Sd	6100	
	CJ*	3400	TAG
Salt Creek			
	Field is separated by Horseshoe Atoll; Wells on western edge of field may be still in the Midland Basin, but wells on atoll and east will be under Eastern shelf geologically		
	<u>Eastern Shelf</u>		
	Str	6600	inactive
	Cany	6150	active CO2 flood
	CJ*	3300	TAG
	<u>Midland Basin</u>		
	Canyon Reef	6300	Active CO2 Flood
	Wichita Albany	3000	
	Clearfork	2100	
	San Andres	1100	
Spires			
	Ell	7400	
	Str	6800	
	CJ*	3000	TAG
	SA	1450	active inj flood zone - TAG

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King County**10/9/12**

Note: Waterboard ranges 100-350 over county, depending on the elevation of well and depth of red beds.
 *Denotes a non productive formation

Field Name	Formations	Fm Tops	Remarks
Anne Tandy	Consolidated Congl Str CJ*	Strawn & Twin Peaks formations 5650 5200 2100	
Bateman Ranch	C zone Str B zone Cany A zone Cisco CJ*	5200 5000 3600 2100	TAG
Big B	Consolidate Strawn & Twin Peaks formations Lo Str Tann CJ*	Strawn & Twin Peaks formations 5000 2700 1900	TAG
Big S	Consolidate Strawn & Twin Peaks formations Congl Caddo Str CJ*	Strawn & Twin Peaks formations 5800 5700 5350 to 5700 2100	TAG
Block F	Tann CJ*	3100 2200	TAG
Burnett Ranch	Penn Im Penn Sd DesMoines Im DesMoines sd	5400 5300 5300 5250	

	CJ*	2200	TAG
Pitchfork (Balt)	Tann	3650	inactive
	CJ*	2400	TAG
Probable	Cany	4400	
	CJ*	2800	TAG
Reutinger	Up Tann	2800	
	CJ*	2200	TAG
Springer	Tann	3400	
	CJ*	2300	TAG
Tom B	Str	5550	
	Cany	4300	inactive
	Bunger	4000	
	CJ*	2600	TAG
Wages Dream	Tann	3100	
	CJ*	2600	TAG

Lamb County**6/21/12****Note:** **Waterboard ranges 250-350 over county.*****Denotes a non productive formation**

Field Name	Formations	Fm Tops	Remarks
Anton-Irish	Clfk	5300	WBL 350
	SA*	3900	active CO2 flood
	Yates*	1900	TAG
Illusion Lake	SA	4000	WBL 300
	Yates*	2000	TAG
	SA	4000	WBL 300
Littlefield	Yates*	1900	TAG

Loving County**6/21/12****Note:** **Waterboard depth widely variable*****Denotes a non productive formation**

Field Name	Formations	Fm Tops	Remarks
Arapaho	Morrow	15700	
	Atoka	15200	
	Str	14700	
	Del	4800	
Brunson Ranch			WBL 350 Santa Rosa
	Atoka	15400	
	Wfcp*	11885	
	Bn Spr*	9500	
	Del*	6500	
Dimmitt	Cherry Canyon & Delaware combo'd to cons.		
	Ch Cany	6200	
	Del	4500	
El Mar	Del	4500	CO2
Grice	Del	4500	
Haley			Note-Haley(Wolfcamp-Penn Cons.)
	Morrow	17000	Haley(Morrow)&Haley(Strawn) consol
	Str*	15000	interval-12682-18342'
	Wfcp*	12000	
	Bn Spr*	9000	
	Del*	5100	
Jeanita			
	Ch Cany	4500	
	RedBluff	3900	

Madera Ranch

Lo Penn	15000
Del	4500

Mason

Del	3900
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Mentone

Ell	21000	
Fuss	18900	
Atoka	16000	high pressure
Wfcp*	11000	
Bone Spr*	8200	
Ch Cany	5700	
Del	5200	
BellCany	4700	

Moore-Hooper

Ell	21000	
Fuss	19000	
Atoka*	16000	high pressure
Wfcp*	11000	
Bone Spr*	8200	
Ch Cany*	6600	
Del*	4300	

Phantom

(combo Phantom Ranch, Phantom, W., Quito, Soda Lake, Vermejo, E., & Wolf fields)	see Reeves, Ward, & Winkler also (combo int 9515-12447)
Ell	20800
Dev	17800
Penn	14900
Wfcp	11000
BoneSp	9800
Ch Cany	7800
Del*	4300

Pinal Dome

Cherry Canyon & Delaware combo'd to Dimmitt (Delaware Cons.)	
Lo Wfcp	12900
Bone Spr*	9000
Ch Cany*	6400
Del*	5000

Red Bluff WBL 900

Wfcp	11900
Brushy Cany	6000
Lo Del	5400
Ch Cany	3700
Del	3000

Tunstill see also Reeves Co.

Del	3400
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Twofreds

Del	4900
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Wheat WBL 800

Ch Cany	6600
Del	4300

idated

Lubbock County**6/21/12**

Note: **Waterboard ranges 250-350 over county.**

***Denotes a non productive formation**

Field Name	Formations	Fm Tops	Remarks
Broadview	Clfk	5500	
	SA*	2900	TAG
	Yates*	1900	
Edmisson	Clfk	5000	
	SA*	2900	TAG
	Yates*	1700	
Givens	Lo Clfk	6050	
	SA*	2900	TAG
	Yates*	2000	
Hickville			WBL 300
	Str	9200	
	Clfk	5200	
	SA*	2900	TAG
Idalou	Yates*	1800	
			WBL 350
	Str	9200	
	Lo Clfk	5500	
Lee Harrison	SA*	2900	TAG
	Yates*	1800	
			WBL 300
	Clfk	4700	
	Glor	4300	
	SA*	2900	TAG
	Yates*	1900	

Robertson-Zephyr

Clearfork	4800	
SA*	3374	TAG
Yates*	2216	

Stinnett, SE

		WBL 300
Clfk	4500	
SA*	2900	TAG
Yates*	1700	

Lynn County**6/21/12**

Note: **Waterboard ranges 250-350 over county.**

***Denotes a non productive formation**

Field Name	Formations	Fm Tops	Remarks
Guinn	Glor	4550	
	SA	4000	TAG
	Yates*	1800	
Miriam	Glor	4300	
	SA*	3900	TAG
	Yates*	1800	
O'Donnell			WBL 350
	Ell	9300	
	Miss	8900	
	Str	8600	
	SA*	4000	TAG
Suniland	Yates*	1500	
			WBL 250
	Glor	4200	
	Lo SA	3900	
Tahoka	SA	3700	TAG
	Yates*	1900	
			WBL 300
Y.W.O.	Penn/Str	9750	
	SA*	3700	TAG
	Yates*	1900	
			WBL 400
Glor			WBL 325
	SA	4000	TAG

Yates*

1800

Martin County**6/21/12*****Denotes a non productive formation**

Field Name	Formations	Fm Tops	Remarks
Ackerly			WBL 200-400 Carried in 8A, See Dawson Co.
	Penn	9400	inactive zone
	Dean	8100	
	SA*	4000	TAG
	Yates*	2200	
Belspec			WBL 250
	Fuss	11200	
	Str	10100	
	Spra	6500	
	SA*	3500	TAG
	Yates*		
	SR	1000	
Block 7			
	Ell	13200	
	Dev	12200	
	Permo-Penn	10600	
	Spra	8200	
	SA*		TAG
	Yates*		
	SR	1000	
Breedlove			
	Dev	12000	
	Lo Spra/Dean	9500	
	Up Spra*	8000	
	SA*	4500	TAG
	SR	1000	
Comanche Bluff			
	Sil	12100	
	Spra	8200	
	Grbg	4300	
	Q	4100	
	SR	1000	

JC		WBL 250
	Dev	11500
	Str	10500
	Wfcp	9100
	Spra	7500
	SA	4500
	SR	1000
		TAG
Jack Black		
	Cisco	8500
	SA*	4000
	Yates*	2200
	SR	1000
		TAG
Lacaff		
	Dean	9500
	Up Spra	8300
	SA	4500
	SR	1000
		TAG
M.A.K.		
	Spra	8500
	SA*	4400
	SR	1000
		TAG
Mabee		
	SA	4700
	Yates*	2700
		WBL 250 + SR(1100-1750) Andrews C WBL 300 in Martin Co. only active CO2 flood - TAG (commingling 6935-12207 in some wells)
Monbak		
	Str	10300
	Spra	
	SA*	
	SR	1000
		TAG
Nuggett		
	Sil	11600
	Miss	11100
	SA*	
	SR	1000
		TAG
Phoenix		
	Grbg	3950

	SR	1000	
Pleasure Lake			
	Fuss	10600	
	SA*		TAG
	SR	1000	
RK			
	Dev	11800	
	Str	10600	
	Wfcp*	9600	
	Spra*	8100	
	SA*	4300	TAG
	SR	1000	
Reef Expl			
	Dev	12200	
	SA*		TAG
	SR	1000	
Sale Ranch			
	Fuss	11600	
	Str	10400	
	Spra*	7500	
	SA*	3500	TAG
	SR	1000	
Spraberry			
	Tag all Spraberry fm plugs. Separate Spra/SA with plug due to dumpflooding of Spra. NO exceptions.		
	Lo Dean	9500	
	Up Dean	6500	TAG
	SA*	3500 SE to	4500 NW - TAG
	SR	1000	(commingling 6935-12207 in some wells)
Stanton			
	Fuss	11400	
	Wfcp	8600	
	Spra	8200	
	SA*	3600	TAG
	SR	1000	
Sulphur Draw			
	Lo Dean	9500 to 8500	
	Up Spra	7700	
	SA*	3900	TAG

SR

1000

Co. only

Midland County**11/29/12*****Denotes a non productive formation**

Field Name	Formations	Fm Tops	Remarks
Azalea			WBL 250
	Dev	11500	
	Str	10300	atoka & strawn commingled
	Spra	7300	
	Grbg	4000	
	SR	1000	
Bradford Ranch			WBL 300
	Atoka	11200	atoka & strawn commingled
	Str	10700	
	Spra	7800	
	SA*	4400	TAG
	SR	1000	East area of field
Brazos			WBL 300
	SA	4000	TAG
	SR	1000	
Dora Roberts			WBL 250 + SR (1000-1400)
	Ell	12700	
	Dev	11800	
	Penn	10100	atoka & strawn commingled
	Spra*	7800	
	SA*	4700	TAG
	Q	4000	
Germania			WBL 250
	Grbg	3900	
	SR	1000	
Headlee			WBL 250 + SR(1100-1500) See Ector Co.
	Ell	13100	
	Dev/Fuss	11700	
	Cany/Str	10300	
	Wfcp	9100	
	Spra*	7700	
	SA*	4200	TAG

Yates*	3000	est top
Howard-Glasscock		WBL 325 See also Crane, Glasscock, Howard, Midland, Mitchell, and Sterling Co. Note: downhole commingle is common in many wells (Yates - Wichita Albany) Mostly cable tool holes, little cement
Consolidated foll. Fields		
Howard-Glasscock,		
Howard-Glasscock-Glorieta,		
Howard-Glasscock-Clearfork, MI)		
Clfk	3400	
Glor	2700	
SA	1850	TAG
7 Riv	1300	
Yates	1250	
		(depths could vary from Howard Co.)
Mid-Mar,E		WBL 250
Fuss	11600	
Str	10200	
Spra	7200	
SA	4000	TAG
Moonlight		
Miss	11600	
Atoka*	10900	
Wfcp*	9600	
Spra*	8100	
Glor*	5750	
Grbg*	4500	
Moose		WBL 250 + SR(700-1350) Also Crane and Ector Counties
Q	4370	
7 Riv	3970	
Yates*	2000	
Parks		WBL 250
Penn	10440	
Lo Spra	8000	
Up Spra	7700	
SA*	4700	TAG
SR	1000	

Spraberry

Note: Attempt to verify formation depths in each well. San Andres casing problems common, be aware of potential for dumpflooding from SA to Spraberry **Base of SA may be as deep as 5400'-6000' (?) in SW Midland County only. Tag all San Andres plugs.** Clfk plugs required in area SE of Midland **Queen & Yates Plugs SW Midland Co. only (Sweetie Peck & Moose area).** High volume water flows possible.

Up Spra/Dean	8300 to 6500
Clfk	7200 to 5600
SA* SW Mid. Co.	4600 TAG
SA* NW Mid. Co.	4400 TAG
Q SW Mid. Co.	3900
Y SW Mid. Co.	2000
SR	1000

Sweetie Peck

Ell	13000
Fuss	12500
Dev	11800
Penn	10200
Wfcp	9800
SA*	4600 TAG
Q	3700
Y	2000

Virey

Ell	13300
Penn	10800
Wfcp*	9000
Spra*	7800
SA*	4900 TAG

Mitchell County**6/21/12*****Denotes a non productive formation**

Field Name	Formations	Fm Tops	Remarks
Coleman Ranch	Clfk	2500 to 3000	
	SA*	1650	TAG
	Santa Rosa	600	TAG problems in area
Dixon	Miss/Ell	7100	
	Odom	6900	
	Str	6200	
	CJ	3100	TAG
Ellwood	Miss	6300	
	CJ	3100	TAG
	Yates	950	inactive
Howard-Glasscock			WBL 325
	Consolidated foll. Fields		See also Crane, Glasscock, Howard,
	Howard-Glasscock,		Midland, Mitchell, and Sterling Co.
	Howard-Glasscock-Glorieta,		
	Howard-Glasscock-Clearfork, MI)		Note: downhole commingle is
	Clfk	3400	common in many wells
	Glor	2700	(Yates - Wichita Albany) Mostly
	SA	1850	cable tool holes, little cement
	7 Riv	1300	
	Yates	1250	
			(depths could vary from Howard Co.)
latan			WBL 150-200
latan, N			See also Howard County
latan,-E. Howard	Glor/Clfk	2400	
	SA	1500	TAG
Jameson			Carried in District 7C
			Carried in District 7C

Jameson, N

Ell	7200
Odom	6800
Str	5850
CJ	3100 TAG
Tubb	2000

PGA

Clfk	2500
SA*	1600 TAG

Sharon Ridge

Caution: Severe Yates flows possible
Carried in District 8A Scurry Co.

Wfcp	4800
Wich	3300
Clfk	2800
SA	1400 to 2400
Yates*	800

TAG
TAG; Perforate and squeeze all
single string completions at the
waterboard

Turner-Gregory

CJ*	3600	TAG
Clfk	2700	
SA*	1600	TAG

Westbrook

		WBL 325
Ell	8100	
Miss	7900	
Wfcp	5300	
CJ	3600	TAG
Clfk	3100	
SA*	1600	TAG
Yates*	1000 to 600	

Motley County**6/21/12*****Denotes a non productive formation**

Field Name	Formations	Fm Tops	Remarks
Gupton	Cany	5200	WBL 200
	CJ*	2700	TAG
Roaring Springs	Permo-Penn	4050	WBL 250
	CJ*	2000	TAG
Roaring Springs, N	Permo-Penn	4250	WBL 250
	CJ*	2000	TAG
Roaring Springs, W	Permo-Penn	4100	WBL 250
	CJ*	2000	TAG
	Inj. Interval	500-1000	
Wolf Flat	Cisco	5400	WBL 200
	CJ*	2700	TAG

Reeves County**2/14/13**

Note: Waterboard varies over county. Waterboard may protect Rustler

*Denotes a non productive formation

Field Name	Formations	Fm Tops	Remarks
Barilla	Wlcp Bell Cany	10100 5000	
Bush	Perm Del	11300 5000	
Cable	Wfcp Del	10800 5700 - 5200	Cable Wolfcamp renamed to Wolfbone (Trend Area) combo bone springs, wolfcamp & permian
Chapman	Del	2900	
Cognac	ChCany Del	5100 3800	
Collie	Del	4700	WBL 2050 (base of Rustler) see also Ward Co. 1 mile south of Pecos
Crusher	Del	5100	see also Pecos Co.
Ford	Ch/Br Cany Del	5100 2700	WBL 300 see also Culberson Co.
Geraldine	Del/Ch Cany Ford-Del	3400 2500	WBL 350 see also Culberson Co.

Greasewood

Dev	16350
BoneSp	7500
Del	4100

Hamon	Ellen.	20450	WBL 1650' (base of Rustler)
	Dev	15950	
	Wolf	12300	
	Del	5150	

JBY

ChCany	6000
Del	5100

Jesse Burner

ChCany	3800
Del	2700

Kennedy-Faulkner

Del	2500
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Ken Reagan		WBL: 1350
	Del 3300	

Mi Vida

See also Ward Co.

Ell	19000
Fuss	16000
Wfcp*	10500
BoneSp*	8000
ChCany*	5900
Del*	4300

Nine Mile Draw

Fuss	14000
BoneSp	6800
Wolf	
Del	5800

Olds

Del	3000
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Orla

Del	3600
-----	------

Pecos, N.		same as Mi Vida
	Ell	19000
	Fuss	16000
	Wfcp*	10500
	BoneSp*	8000
	ChCany*	5900
	Del*	4300
Phantom	(combo Phantom Ranch, Phantom, W., Quito, Soda Lake, Vermejo, E., & Wolf fields)	see Loving, Ward, & Winkler also
	Ell	20800 (combo int 9515-12447)
	Dev	17800
	Penn	14900
	Wfcp	11000
	BoneSp	9800
	Ch Cany	7800
	Del*	4300
Reaves		
	Del	3700
Sabre		
	Del	2900
Scott		WBL: 1300 (base of Rustler)
	ChCany	6100
	Del	4200
Screwbean		WBL 300 see also Culberson Co.
	Del	2500
Sullivan		
	Del	2600
Toro		Toro (wolfcamp) renamed to Wolfbone (Trend Area) combo wolfcamp, bone springs & permian fields
	Ell	18000
	Fuss	17800
	Dev	17300

Del	5100
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Tunstill		see also Loving Co.
	Del	3400

Waha		
	Ell	15000
	Penn*	11000
	Miss*	10000
	BoneSp*	7800
	Consol Del G	6500
	Del	4800
	BellCany	4800

Warcob		
	Wfcp	10000
	Del	2500

Worsham		
	Ell	19600
	Fuss	17100
	Dev	16700
	Miss	16000
	ChCany	6100
	Del	4900
	Castille	2800

Worsham-Bayer		Worsham-Bayer (wolfcamp) renamed to Wolfbone (Trend Area) combo wolfcamp, bone springs, & permian
	Ell	16800
	Dev*	13600
	Penn*	12500
	Wfcp*	10200
	BoneSp*	8050
	ChCany*	6200
	Del*	4800

Pecos County

Note: Any well penetrat
is protected as us
the top of the Cap
tested. Care sho
casing at the pen
artesian flow of w

Any well located \
placed at the bas
Bell Canyon to pr
ensure cement is
and/or pressures
the Capitan or lov

Note: Waterboard varies over county. W
San Andres, Rustler
*Denotes a non productive formati

Field Name	Formations	Fm Tops
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Abell

Ell	5400
Mon	5300
Dev	5100
Perm Gen	3900
Clfk/Glor	3200
SA	2100
Grbg	2100

Apco-Warner

Ell	4500
Wich Alb	3400
Clfk	2500
SA*	1700

Belding

Yates	2500
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Brooklaw

Clfk	3000
SA	1800

Brown & Thorpe

Tubb	3200
Clfk	2900
SA*	1800

Cactus Jack

Wich Alb	3300
SA	1550
Q	1250
Yates*	700

Chancellor

Dev	5100
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Chenot

Wfcp	5000 to 4400
Wich-Alb	4100
SA*	1600
Q	1300

Crusher

Del	5100
-----	------

Coyanosa

Ell	15000
Dev	11800
Wfcp*	9000
Bone Spr	7100
Ch Cany	6000
Del	4800

Bell Canyon in Capitan Area

Elsinore

MultiPay	12000
Wfcp	8000-7200
Caballos	7300
Del/Ch Cany	4000

Ft Stockton

Yates	2900
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Ft Stockton, S

Q	2600
Yates	2300

Fromme		
	Q	1400
Four C		
	Clfk	3300
	Glor	2900
	Grbg/SA	2200
	Yates	1000
Girvintex		
	Q	1400
	Yates	1000
Gomez		
	Ell	20000
	Dev	18200
	Wfcp	12000
	Up Wfcp*	9000
	Bone Spr*	7100
	Del*	5100-4300
	Q	2700
	Yates	1400
Lehn-Apco		
	Ell	4700
	Q	1600
Lehn-Apco, S		
	Ell	4700
	Wich-Alb	4300
	Q	1600
Leon Valley		
	O'Brien	2500
	Yates	2500
Malicky		
	Q	1900
Mesa Vista		
	Sullivan	4800
	Wich Alb	4800
	Yates	1200

Millard		
	Q	1250-2100
	Soma*	900
Millard, N		
	Q	1300
	Soma	800
Netterville		
	Yates	2300
Onlaw		
	Q	1100
	Soma	700
Payton		
	Yates	2000
Pecos Valley		
	Dev	5400
	Wfcp	5100
	SA*	2200
	Yates	1600
	Yates	1500
Priest & Beavers		
	Q	2200
Puckett		
	Ell	13700
	Dev	10300
	Penn*	7700
	Wfcp*	5000
	SA*	2500
Putman		
	WichAlb	4100
	SA	1600
	Q	1300

Rimfire

Yates 2200

Rojo Caballos/Wolfsbone

Ell	20500
Dev	17800
Atoka	16400
Miss	15000
Penn	12900
Wfcp	10900
ChCany	6800
Del/Lamar	5200

Shearer

7Riv 1400

Sheffield

Ell	9300
Str	7400
Cany	6900
Clfk	4200

Shocker

Q 1700

Stroman

Dev	21200
SA	3800

Sun Valley

Tubb	3200
SA*	1800

T.C.I.

Wadd	6000
SA	2400
GRBG	2000
7Riv	1500

Taylor Link

SA	1800
GRBG	1600
Yates	900

Thigpen

Zone	9800
Penn	7700
Dev	7600
Str	7000

Toborg

Toborg	100-500
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Tunis Creek

WA	2700
Q	1500
Yates	900

USM

Q	3400
Yates*	2900
Rustler*	1300

Viejos

Dev	6200
Wfcp	5000

Walker

SA*	2100
7Riv	1800
Q	1800

Wentz

WA	3700
Clfk	2700

White & Baker

Q	1600
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Wolfbone see Rojo Cabalos above

Yates

SA (Yates) 1200-1600

Yucca Butte

Ell	10400
Str	8300
Wfcp	6200
SA	2400
Yates	1500

2/9/13

ing the top of the Capitan Reef, whether the Capitan
sable quality water or not, shall have a plug placed at
Capitan. This plug must be tagged and/or pressure
should be taken to ensure there is cement behind the
extraction point of the Capitan. This plug will prevent
water to the Salado salt.

within the area of the Capitan Reef shall have a plug
e of the Salado/Tansill Salt or above the Yates or
event flow from below. Care should be taken to
placed behind the casing. This plug must be tagged
tested. This plug will prevent the flow of water from
over injection zones to the salt zones.

Waterboard may protect Santa Rosa,

ion

Remarks

WBL 450 + SA (2100-3100)

See also Crane County

Usable quality water zone also - TAG

TAG

WBL: 625, 1175-1500, 3900-4700

TAG

TAG

WBL 550

TAG

WBL/Rustler, est 1600
25 SW Ft Stockton

WBL 500 + SA (1625-2300)

TAG

see also Reeves Co.

Note: WB may require Capitan Reef protection

Fuss/EII/Dev
Isolate Wfcp

WBL 650 + (1250-1650)

WBL 575 + (1200-1500)

TAG

WBL 400

WBL 400

verify depth of Q

Crockett Co, District 8

WBL 200

TAG

Pecos Valley (High Gravity) gas field
Pecos Valley (Low Gravity) oil field

TAG

WBL 600'

TAG

Rojo Caballos (wolfcamp) renamed to Wolfbone (trend area) combo wolfcamp, bone springs, & permian

TAG

TAG

WBL 300 & 2300-2850

TAG

1 mile N. Imperial

WBL varies

SA, Grbg, Yates commingled - TAG

WBL 400-600. Wells in toborg will often not penetrate base of fresh water. Caution: Some wells in or near Pecos River.

Problem zone 1200-1000 from old P&A's

WBL 600' & 1700'-2500'

WBL 550 -800, 2100-2900
TAG

WBL 550 & 1400-2100 SA

Producing formations can vary in depth due to elevation differences of wells. Production from San Andres and 7 Rivers. WBL can vary based on well elevation also. See also Toborg field

TAG

Scurry County**6/21/12**

Note: Waterboard ranges 300-500 for entire county.
 Yates formation is prolific salt water/gas bearing zone throughout Scurry county.
TAG all Yates plugs.
 *Denotes a non productive formation

Field Name	Formations	Fm Tops	Remarks
Arah			
	Ell	8050	
	Str	7400	
	Wfcp	5300	
	Clfk	2800	
	SA	1600	TAG
	Yates*	1100	TAG
Camp Springs			
	Ell	7200	
	Str	6300	
	Cany	5500	
	CJ	2100	TAG
Cogdell			see also Kent Co.
	Str	7300	inactive
	Cany Rf	6650	
	Wfcp	5300	inactive
	Fuller Sd	4900	
	CJ	2500	TAG
	SA	1350	TAG
	Yates	700	TAG
Corazon			WBL: 450-550
	SA	2000	TAG
	Yates	750	TAG
Diamond -M-			
	Cany Lm	6450	
	Wfcp	4550	
	Wich	3700	
	Clfk	3100	they commingled CF & SA per hearing
	SA	2200	TAG

Yates	800	TAG
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TAG all Yates plugs.

Fluvanna		See also Borden Co.
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Ell	8300	
Miss/Str Lo	8050	
Str	7700	
Spraberry	5500	
SA	4200	TAG
Yates	1200	TAG

Hataway		
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Str	7650	
Yates	1200	TAG

Hermleigh		
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Ell	7300	
Str	6600	
Cany	6200	
CJ	3000	TAG

Kelly-Snyder		
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Caddo	7600	
Cany	6400	TAG/CO2 Reef plug rqrd if disp with WA & Wlfcp
Cisco	6100	
WA	3950	TAG disp zone/may have it combo with Wlfcp & reef/ do not leave reef open active CO2
Clfk	3100	
SA	1600	TAG
Yates	650	

Mirage		WB 350'
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Ell	7600	
Str	7300	
Clfk	2200	
SA	1600	TAG
Yates	800	

TAG all Yates plugs.

Revilo		WB up to 575 shannon est. lease
	Clfk	3350
	Glor	2400
	SA	2200
	Yates	1300
Ride		TAG
	Cisco/Penn	6600
	SA	2300
	Yates	900
Shannon Ranch		TAG
	Ell	8050
	Str	7400
	SA	1600
	Yates*	1100
Sharon Ridge		TAG
	Wfcp	4800
	Wich	3300
	Clfk	2800
	SA	1400 to 2400
	Yates*	800
Tri-Rue		Caution: Severe Yates flows possible See also Mitchell Co.
		TAG
		TAG; Perforate and squeeze all single string completions at the waterboard
Varel		
	Str	7400
	Glor	2600
	SA	2300
	Yates	1330
		TAG
		TAG

Sterling County**6/21/12****Note:*****Denotes a non productive formation**

Field Name	Formations	Fm Tops	Remarks
China Draw			
	Cany	7400	
	SA	?????	TAG
Clark	SA	1000	TAG
Conger			WBL 400'
	Cany	7200	
	Wfcp	6200	
	Penn-Cisco	6100	
	WA	5000	
	Leon	4000	
	SA	2000	TAG
	Q	1600	
	Yates	1100	
Note: Conger (Penn) fields consolidated Canyon and Cisco			
Credo			
	Cisco	7300	
	Wfcp	7000	
	WA	3800	
	SA	2100	TAG
Herrell	Q	1400	

Howard-Glasscock

Consolidated foll. Fields

Howard-Glasscock,

Howard-Glasscock-Glorieta,

Howard-Glasscock-Clearfork, MI

WBL 325

See also Crane, Glasscock, Howard,
Midland, Mitchell, and Sterling Co.Note: downhole commingle is
common in many wells(Yates - Wichita Albany) Mostly
cable tool holes, little cement

Clfk 3400

Glor 2700

SA 1850

7 Riv 1300

Yates 1250

TAG

(depths could vary from Howard Co.)

Jameson

Str 5700

CJ 3100 TAG

Jameson, N. and Jameson, NW fields are in District 8.

Jameson and Jameson, E. fields are in District 7C.

McEntire

Fuss 8500

Mont 8300

Wolfcamp 6500

CF 2100

Q 1000

Parochial-Bade

WBL 400'

Clfk 2100

Q 1000

Passout

Miss 7900

Str 7800

Sugg Ranch

WBL 550'

Cany 7300

Wfcp 5900

Dean 5800

17 miles SW Sterling City

Triple M

Wfcp	7400-7600
WA	3500
SA	2100
	TAG

Trisearch

Lndr	5100
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Water Valley Field is in District 7C

Terry County**11/8/12**

Note: Waterboard ranges from 300-450 for entire county.

*Denotes a non productive formation

Field Name	Formations	Fm Tops	Remarks
Adair			See also Gaines Co.
	Wfcp	8400	
	SA	4700	TAG
	Yates	3050	
Brownfield, S.			
	Fuss	11900	
	Str	10550	
	Cany	9300	
	SA	5100	TAG
	Yates	2900	
Covington			
	SA	5000	TAG
	Yates	2900	
Dominion			
	Sil	13300	
	SA	5100	TAG
	Yates	3000	
Kingdom			WBL 400' +/- see also Hockley Co.
	Abo	7500	
	Clfk	7100	
	SA	4800	TAG
	Yates	2600	
Leeper			WBL 450'
	Glor	6000	
	SA	5000	TAG
	Yates	2800	

Mound Lake

Fuss	11150	
Penn Rf	9400	
Spr	6800	
SA	4300	TAG
Yates	2800	

Prentice

Clfk Lo	7900	
Clfk	6650	
Glor	5900	
SA	5100	TAG
Yates	2900	

TLOC

SA	4850	TAG
Yates	2650	

Tokio

Mont	13300	
Fuss	12800	
Wfcp	9900	
SA	5100	TAG
Yates	2900	

Wellman

Fuss/Sil-Dev	12600	
Wfcp	9700	
SA	4800	TAG
Yates	3000	

Ward County

Note: **Waterboard Information:**
N&E of Wickett
S of Royalty
NW of Royalty
Pyote
Barstow Area

Waterboard depths can vary over short distances and should be required.

TAG all Surface Casing Sh

Note: Any well penetrates the top of the tested. Care should be taken to protect the casing at the artesian flow point.

Any well located in the area should be placed at the top of the Bell Canyon to ensure cementing and/or pressure testing the Capitan oil.

***Denotes a non productive well**

Field Name	Formations	Fm Tops
Abraxas	Atoka	12000
	Wolfcamp	10000
	Bone Springs	8000
	Delaware	4800

Barstow

Fuss	17400
Dev	17200
Wfcp	10300
BoneSp	7000
ChCany	4800
Del	2300

TAG all Surface Casing Sh

Beall

Ell	14900
Dev	11900
Wfcp	9500

Block 16

Ell	16600
Mont	14500
Dev	13000
Permo-Penn/	
Wfcp	11600
BoneSp	9100
ChCany	5800
Rustler	1700

Block 17

Del	5000
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Byrd

Yates	2400
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Caprito

Del	4800
Chcany	6100

Chuza Springs

Bone Sp	4700
Del	?

Collie

Del	4700
-----	------

TAG all Surface Casing Sh

Crawar

Ell	7900
Wad	7600
Fuss	6400
Dev/ lo Perm	6200
WA/Wfcp	6000
Tubb	4600
Glor	4000
SA	3000

Dorr

Q	2200
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Estes Block 34

Penn	8150
Wfcp	7500
Clfk	5000
Holt	4800
SA	3500
Yates	2200

H.S.A.

Penn	7500
Holt	4800
SA	4500
Q	2900
7Riv	2375
Yates	2150

Janelle

Wad	9700
Dev	7400
Tubb	5300
Clfk	4500
SA	3500

TAG all Surface Casing Sh

Lockridge

Ell	18600
Dev	1600
Wfcp	10900
BoneSp	8500
Del	5000

Magnolia-Sealy

Yates/7Riv	2800
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Miller Block B-29

Penn	7700
SA	2000-3000

Mi Vida

Ell	19000
Fuss	16000
Wfcp	10500
BoneSp	8000
ChCany	5900
Del	4300

Monahans

Penn	8800
Wfcp	7900
Clfk	4750
SA	4100
Q	3100
Yates	2280

Monroe

Del	4600
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Payton

Yates	2000
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TAG all Surface Casing Sh

Phantom (combo Phantom Ranch, Ph:
Vermejo, E., & Wolf fields)

Ell	20800
Dev	17800
Penn	14900
Wfcp	11000
BoneSp	9800
Ch Cany	7800
Del*	4300

Pitzer

ChCany	6000
Del	5000

Poquito

Del	5000
-----	------

Pyote

ChCany	6100
Del	5000

Quito (see Phantom field for Bone :
(Wolfcamp) field)

Ell	19000
Fuss	17100
Atoka	14300
Wfcp	10700
ChCany	6100
Del	4700

Rhoda Walker

ChCany	5900
Del	5000

TAG all Surface Casing Sh

ROC	Atoka	12000
	Wolfcamp	10000
	Bone Springs	8000
	Delaware	4800

Sealy, South	Yates	2650
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Shawnee	Atoka	15000
	ChCany	6000
	Del	4800

Shipley	Glor	3900
	SA	3000
	Q	2500
	Yates	2100

Spencer	Yates	2700
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W.A. Estes	Holt	4600
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Wagon Wheel	Penn	8800
	Wfcp	7600
	Holt	4600
	SA	4200
	Q	3200
	Yates	2300

TAG all Surface Casing Sh

War Wink

Ell	20000
Fus	17500
Wfcp	12750
BoneSp	8500
ChCany	6100
Del	5000

Ward, South

Yates/7Riv	2300
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Ward-Estes, N.

W/A	6200
Q	2900
Yates	2300

Wickett

Yates	2650
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10/2/12

300-650' (base of Santa Rosa
100' (base aluvium) along Pecos River
500' (base of Santa Rosa) & 3000-4000' (San Andres)
1000' (base Santa Rosa) & 3000-4000' (Capitan Reef)
1100-2000 (Base Santa Rosa or Rustler)
instances. Current waterboard letters

oes in Open Hole

strating the top of the Capitan Reef, whether the Capitan is usable quality water or not, shall have a plug placed at Capitan. This plug must be tagged and/or pressure should be taken to ensure there is cement behind the penetration point of the Capitan. This plug will prevent of water to the Salado salt.

ed within the area of the Capitan Reef shall have a plug base of the Salado/Tansill Salt or above the Yates or o prevent flow from below. Care should be taken to nt is placed behind the casing. This plug must be tagged res tested. This plug will prevent the flow of water from r lower injection zones to the salt zones.

Formation**Remarks**

WBL: 2250'

oes in Open Hole

Note: plugs for base Salado or top of Yates & Capitan
Reef as wells may be in the area as noted at the top of
this stuff

WBL 0-1000; & 1725-2000

see also Reeves Co.

oes in Open Hole

WBL 550
see also Crane Co.

TAG

Note: plugs for base Salado or top of Yates & Capitan
Reef as wells may be in the area as noted at the top of
this stuff

TAG

WBL: 350'

TAG

TAG

oes in Open Hole

TAG

See also Reeves Co.

TAG

Note: plugs for base Salado or top of Yates & Capitan Reef as wells may be in the area as noted at the top of this stuff

oes in Open Hole

phantom, W., Quito, Soda Lake,
see Loving, Reeves, & Winkler also
(combo int 9515-12447)

Spring & Wolfcamp zones only now called Phantom

oes in Open Hole

WBL: 250

TAG

Note: plugs for base Salado or top of Yates & Capitan Reef as wells may be in the area as noted at the top of this stuff

Note: plugs for base Salado or top of Yates & Capitan Reef as wells may be in the area as noted at the top of this stuff

TAG

Note: plugs for base Salado or top of Yates & Capitan Reef as wells may be in the area as noted at the top of this stuff

oes in Open Hole

WBL: 850'

Note: plugs for base Salado or top of Yates & Capitan Reef as wells may be in the area as noted at the top of this stuff

WBL - 645-825

Commingled field. OK to set plug across Yates if produced in both zones with Rule 10 permit

Note: plugs for base Salado or top of Yates & Capitan Reef as wells may be in the area as noted at the top of this stuff

Note: plugs for base Salado or top of Yates & Capitan Reef as wells may be in the area as noted at the top of this stuff

Winkler County

Note: Any well penetrates the top of the tested. Care in casing at the artesian flow.

Any well located at the Bell Canyon to ensure cementing and/or pressure the Capitan oil.

TAG all Surface Casing Shales
*Denotes a non productive

Field Name	Formations	Fm Tops
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A.W.

Ell	11300
Wad	11000
Fuss	9700
Dev	9200

Apollo

Ell	18500
Fuss	16000
Atoka	12900

Arenosa

Str Detritus	8400
WA	6850
Clfk	5300
SA	4050
Yates	2500

TAG all Surface Casing Shc

Block 20

Str	14800
Wfcp	11600
Bone Springs	9300
Brushy Can.	7300
Del	5000

Crittenden

Ell	21400
Fuss/Sil	18800
Penn/Morrow	15500
Str/Atoka	14400
Del	4800
Yates	3000

Darmer

Cany	8400
SA	3800
Q	3250
Yates	2400

Emperor

Dev	9000
Wfcp	7600
Wich-Albany	6600
Lo Clfk	6200
Holt	4800
7 Riv/Q	2800
Yates	2350

Evetts

Ell	20500
Sil	18000
Miss	17300
Penn	14600
Wfcp	12400
BoneSp	9000
Del	4500

TAG all Surface Casing Shc**Flying Dove**

Miss	10200
Wfcp	8100
SA	4400
Yates	3200

Flying W

Ell	11600
Fuss	10200
Dev	9500
Wfcp	8100
Glor	5600
SA	4400
Yates	2900

GPM

Penn	8000
Glor	5000
Yates	2500

Halley

Ell	12100
Mont	10300
Dev	9600
Str	8100
Clfk	5150
Glor	4900
SA	3600
Q/Yates	2700

Hendrick

Yates/7Riv	2500
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JKM

Str	9000
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TAG all Surface Casing Shc

Kermit

Ell	10800
Fuss	8700
Dev	7900
Clfk	5100
SA	3900
Yates/7Riv/Q	2800

Keystone

Ell	9500
Sil	8500
Dev	8050
Clfk	5000
Holt	4500
SA	3550
Colby/Q	2900
Yates	2300

Little Joe

Del	5000
Rustler	725

Monahans

Penn	8800
Wfcp	7900
Clfk	4750
SA	4100
Q	3100
Yates	2280

Monahans, N.

Ell	12000
Dev	9400
Penn	8500
Clfk	5600
SA	4000
Q	3400

TAG all Surface Casing Sh

Phantom (combo Phantom Ranch, Pha
Vermejo, E., & Wolf fields)

Ell	20800
Dev	17800
Penn	14900
Wfcp	11000
BoneSp	9800
Ch Cany	7800
Del*	4300

Scarborough
Yates/7Riv 2800

Weiner
Colby/Q 3200

Wheeler
Silurian 10400
Wfcp 7600
SA 4150
Yates*

Wink
Ell/Mont/Fuss 16300
Wfcp 11000
Bone Sp 7900
ChCany 6000

10/2/12

strating the top of the Capitan Reef, whether the Capitan is usable quality water or not, shall have a plug placed at Capitan. This plug must be tagged and/or pressure should be taken to ensure there is cement behind the penetration point of the Capitan. This plug will prevent flow of water to the Salado salt.

ed within the area of the Capitan Reef shall have a plug at the base of the Salado/Tansill Salt or above the Yates or to prevent flow from below. Care should be taken to ensure this is placed behind the casing. This plug must be tagged and pressure tested. This plug will prevent the flow of water from the lower injection zones to the salt zones.

**Notes in Open Hole
Formation**

Remarks

TAG

oes in Open Hole

WBL 450 - 16 miles SE of Kermit

TAG

WBL 500 - "Deep" field is 7Riv/Q production

Note: plugs for base Salado or top of Yates & Capitan
Reef as wells may be in the area as noted at the top of
this stuff