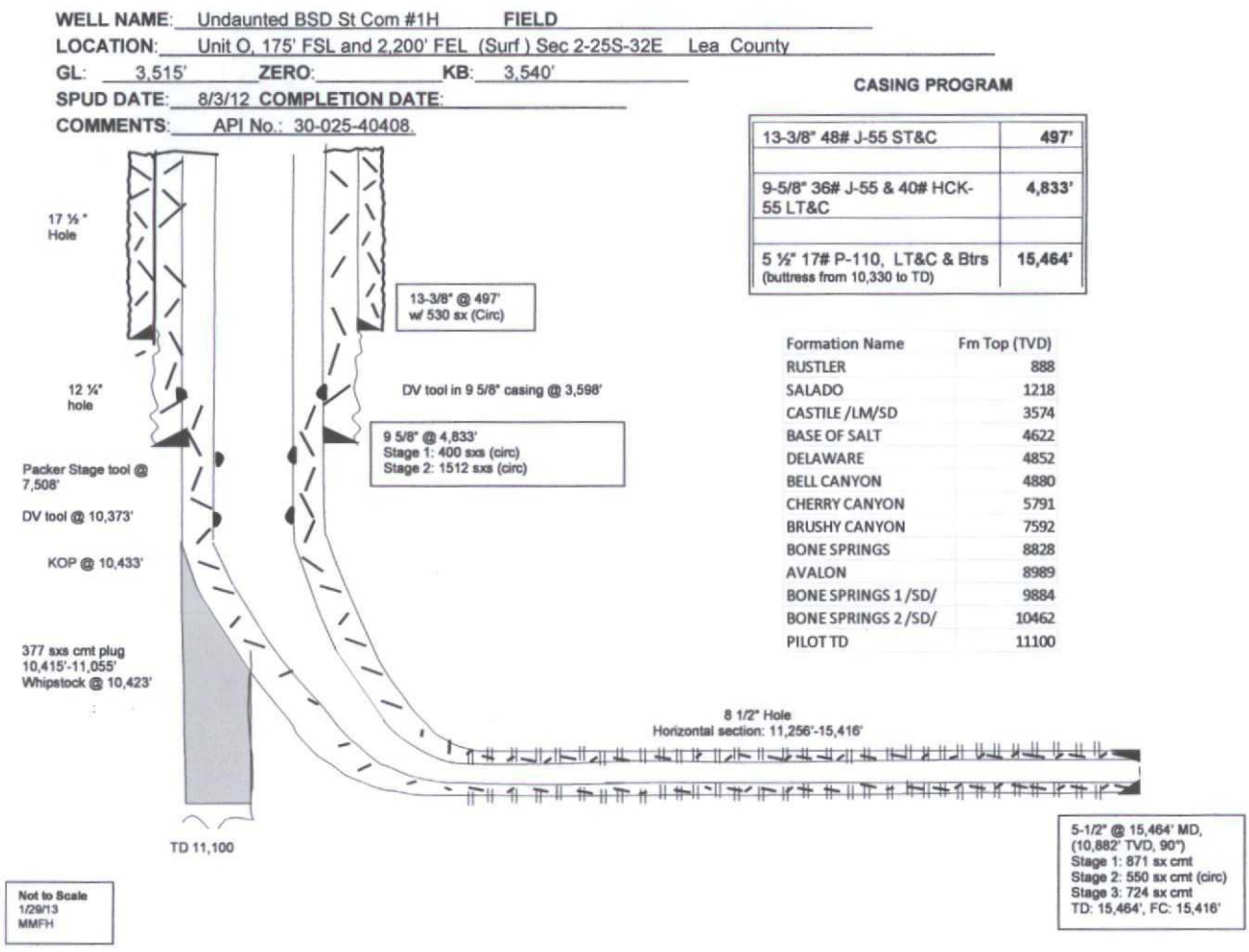

Fig 3. Example of well design from the surrounding area

Casing - Conductor Casing - 58.0 - Wellbore - Original Hole Edit

Comment

String Nominal OD (in)	Weight/Length (lbs/ft)	Set Depth (ftKB)	Wellbore
20	94.00	58.0	Original Hole

OD (in)	Wt (lbs/ft)	Grade	Casing Threads	Top (ftKB)	Bottom (ftKB)	Length (ft)	P (collaps...	Burst Pres...	Max Tensil...	ID (in)	Drift (in)	Mk-up Tq (f...	Max Tq	
20	94.00	H-40	ST&C	18.0	58.0	40.00	520.0			19.124				Edit

Casing - Surface Casing - 765.0 - Wellbore - Original Hole Edit

Comment

Casing grade will be J-55/H-40 Hybrid.

String Nominal OD (in)	Weight/Length (lbs/ft)	Set Depth (ftKB)	Wellbore
13 3/8	48.00	765.0	Original Hole

OD (in)	Wt (lbs/ft)	Grade	Casing Threads	Top (ftKB)	Bottom (ftKB)	Length (ft)	P (collaps...	Burst Pres...	Max Tensil...	ID (in)	Drift (in)	Mk-up Tq (f...	Max Tq	
13 3/8	48.00	J-55	ST&C	0.0	765.0	765.00	740.0	2,370.0	433	12.715	12.559	4,330	5,410	Edit

Casing - Intermediate Casing - 4,720.0 - Wellbore - Original Hole Edit

Comment

36# 9 5/8" Casing grade will be either J-55 or K-55.

String Nominal OD (in)	Weight/Length (lbs/ft)	Set Depth (ftKB)	Wellbore
9 5/8	36.00	4,720.0	Original Hole

OD (in)	Wt (lbs/ft)	Grade	Casing Threads	Top (ftKB)	Bottom (ftKB)	Length (ft)	P (collaps...	Burst Pres...	Max Tensil...	ID (in)	Drift (in)	Mk-up Tq (f...	Max Tq	
9 5/8	40.00	HCK-55	LT&C	0.0	80.0	80.00	4,230.0	3,950.0	604	8.835	8.750	6,940	8,680	Edit
9 5/8	36.00	J-55	LT&C	80.0	3,200.0	3,120.00	2,020.0	3,520.0	453	8.921	8.765	4,530	5,660	Edit
9 5/8	40.00	HCK-55	LT&C	3,200.0	4,720.0	1,520.00	4,230.0	3,950.0	604	8.835	8.750	6,940	8,680	Edit

Casing - Production Casing - 17,970.0 - Wellbore - Original Hole Edit

Comment

String Nominal OD (in)	Weight/Length (lbs/ft)	Set Depth (ftKB)	Wellbore
5 1/2	17.00	17,970.0	Original Hole

OD (in)	Wt (lbs/ft)	Grade	Casing Threads	Top (ftKB)	Bottom (ftKB)	Length (ft)	P (collaps...	Burst Pres...	Max Tensil...	ID (in)	Drift (in)	Mk-up Tq (f...	Max Tq	
5 1/2	17.00	P-110	LT&C	0.0	10,300.0	10,300.00	7,480.0	10,640.0	445	4.892	4.767	4,620	5,780	Edit
5 1/2	17.00	P-110	Buttress Thread	10,300.0	17,970.0	7,670.00	7,480.0	10,640.0	445	4.892	4.767			Edit

Fig 4. Casing design for planned wells in the area

OCD Case No. 14979

YATES PETROLEUM

Exhibit #5