

Revised Permit Information 11/23/15:

Well Name: Tayberries 13 State No. 501H

Location:

SL: 230' FNL & 2303' FEL, Section 13, T-20-S, R-35-E, Lea Co., N.M.

BHL: 230' FSL & 2319' FEL, Section 13, T-20-S, R-35-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
14.75"	0 - 2,010'	10.75"	40.5	J55	STC	1.125	1.25	1.60
9.875"	0-5,800'	7.625"	29.7#	HCP110	LTC	1.125	1.25	1.60
6.75"	0'-9,200'	5.5"	20#	P-110	LTC	1.125	1.25	1.60
6.75"	9,200'-14,815'	5"	23.2#	P-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
2,010'	600	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	300	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,800'	500	12.7	2.22	Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ Surface)
	250	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
14,815'	375	10.8	3.67	60:40:0 Class C + 15.0 pps BA-90 + 4% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 2.55% R-21 + 8.0 pps LCM-1 (TOC @ 5,300')
	300	11.8	2.38	50:50:10 Class H + 0.80% FL-52 + 0.30% ASA-301 + 0.40% SMS + 2.0% Salt + 0.30% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake
	1300	14.2	1.28	50:50:2 Class H + 0.65% FL-52 + 0.45% CD-32 + 0.10% SMS + 2.0% Salt

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 2,010'	Fresh - Gel	8.6-8.8	28-34	N/c
2,010' - 5,800'	Brine	10.0-10.2	28-34	N/c
5,800' - 9,457'	Cut Brine	8.6-9.3	28-34	N/c
9,457' - 14,815' Lateral	Cut Brine	9.0-9.5	40-42	N/c

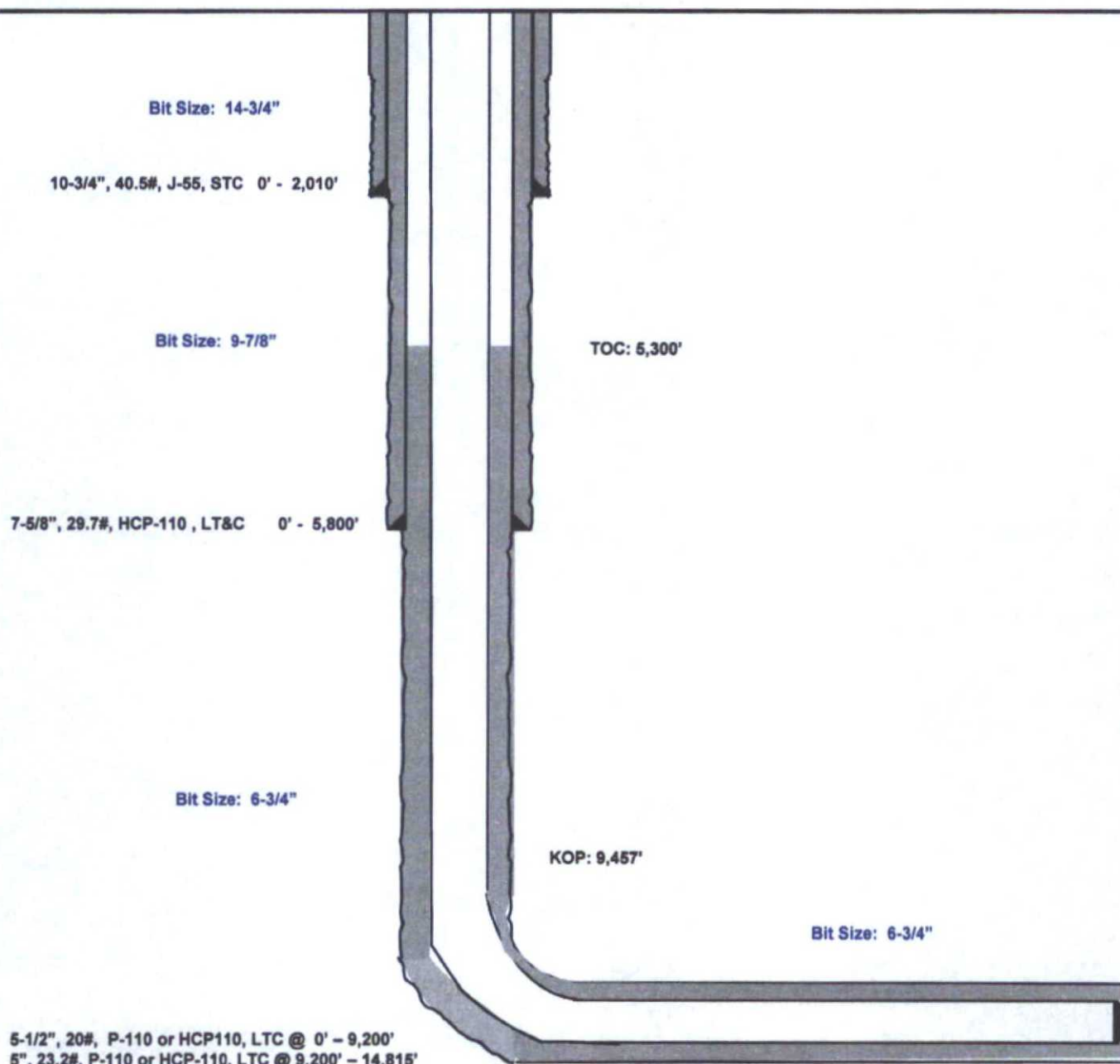
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Tayberries 13 State #501H
Lea County, New Mexico

250' FNL
2303' FEL
Section 13
T-20-S, R-35-E

Proposed Wellbore
Revised 11/23/15
API: 30-025-42731

KB: 3,672'
GL: 3,647'



Lateral: 14,815' MD, 10,050' TVD

BH Location: 230' FSL & 2319' FEL
Section 13
T-20-S, R-35-E



Lea County, NM (NAD 27 NME)
Tayberries 13 State #501H
H&P 260
Plan #1

PROJECT DETAILS: Lea County, NM (NAD 27 NME)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

Admuths to Grid North
True North: -0.50°
Magnetic North: 8.57°
Magnetic Field
Strength: 48319.3nT
Dip Angle: 65.44°
Code: 32100016
Model: IGMF2015

To convert a Magnetic Direction to a Grid Direction, Add 8.57°
To convert a Magnetic Direction to a True Direction, Add 1.07° East
To convert a True Direction to a Grid Direction, Subtract 8.50°

WELL DETAILS: #501H					
Ground Level:	3547.0				
KB + 25 @ 2672.0m (H&P 260)					
Eastings	794861.002	34° 46' 00" E	100° 24' 33.163 W	Dot	
Northings	579637.00				
-E-W	0.0				
-N-S	0.0				

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0
3	4736.9	2.37	359.71	4736.9	4.9	0.0	1.00	359.71	-4.9
4	9457.5	2.37	359.71	9453.4	200.0	-1.0	0.00	0.00	-200.0
5	10381.2	90.00	179.60	10050.0	-372.4	3.0	10.00	179.89	372.4
6	14815.9	90.00	179.60	10050.0	-4807.0	34.0	0.00	0.00	4807.1
									PBHL(tayberries 13 St #501H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)					
Name	TVD	+N-S	+E-W	Eastings	Northings
PTP(tayberries 13 St #501H)	10050.0	-48.0	1.5	579757.00	794862.00
PBHL(tayberries 13 St #501H)	10050.0	-4807.0	34.0	571020.00	794855.00
Rectangle (Sides: L&B W&B 0)					

