

Permit Information:

Well Name: Dillon 31 No. 701H

Location:

SL: 341' FSL & 2473' FEL, Section 31, T-24-S, R-34-E, Lea Co., N.M.

BHL: 230' FNL & 2260' FEL, Section 31, T-24-S, R-34-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 - 1,185'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-11,000'	9.625"	40#	HCP-110	LTC	1.125	1.25	1.60
8.75"	0'-17,270'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1,185'	500	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
11,000'	1200	9.7	2.28	Lead: LiteCrete + 0.2% D-167 + 0.2% D-046 + 0.4% D-065 + 0.2% D-201 (TOC @ Surface)
	500	11.9	2.36	Middle: Class 'H' + 0.2% FL-52 + 0.75% CD-32 + 1.0% EC-1 + 0.15% ASA-301 + 1.60% SMS + 5.0% Salt + 0.35% R-21 + 5.0 pps LCM-1 + 0.005 pps Static Free + 0.25 pps Celloflake + 0.005 gps FP-6L
	375	15.6	1.19	Tail: Class 'H' + 0.10% FL-52 + 0.60% CD-32 + 0.50% SMS + 2.0% Salt + 0.20% R-3 + 0.005 pps Static Free + 0.005 gps FP-6L
17,270'	1475	14.2	1.30	50:50:2 Class H + 0.65% FL-52 + 0.70% CD-32 + 1.0% EC-1 + 0.40% SMS + 2.0% Salt + 0.05% R-3 + 0.005 pps Static Free + 0.005 gps FP-6L

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,185'	Fresh - Gel	8.6-8.8	28-34	N/c
1,185' - 11,000'	Oil Base	8.7-9.4	58-68	N/c - 6
11,000' - 11,883'	Oil Base	8.7-9.4	58-68	N/c - 6
11,883' - 17,270' Lateral	Oil Base	10.0-10.5	58-68	N/c - 6

FEB 12 2015

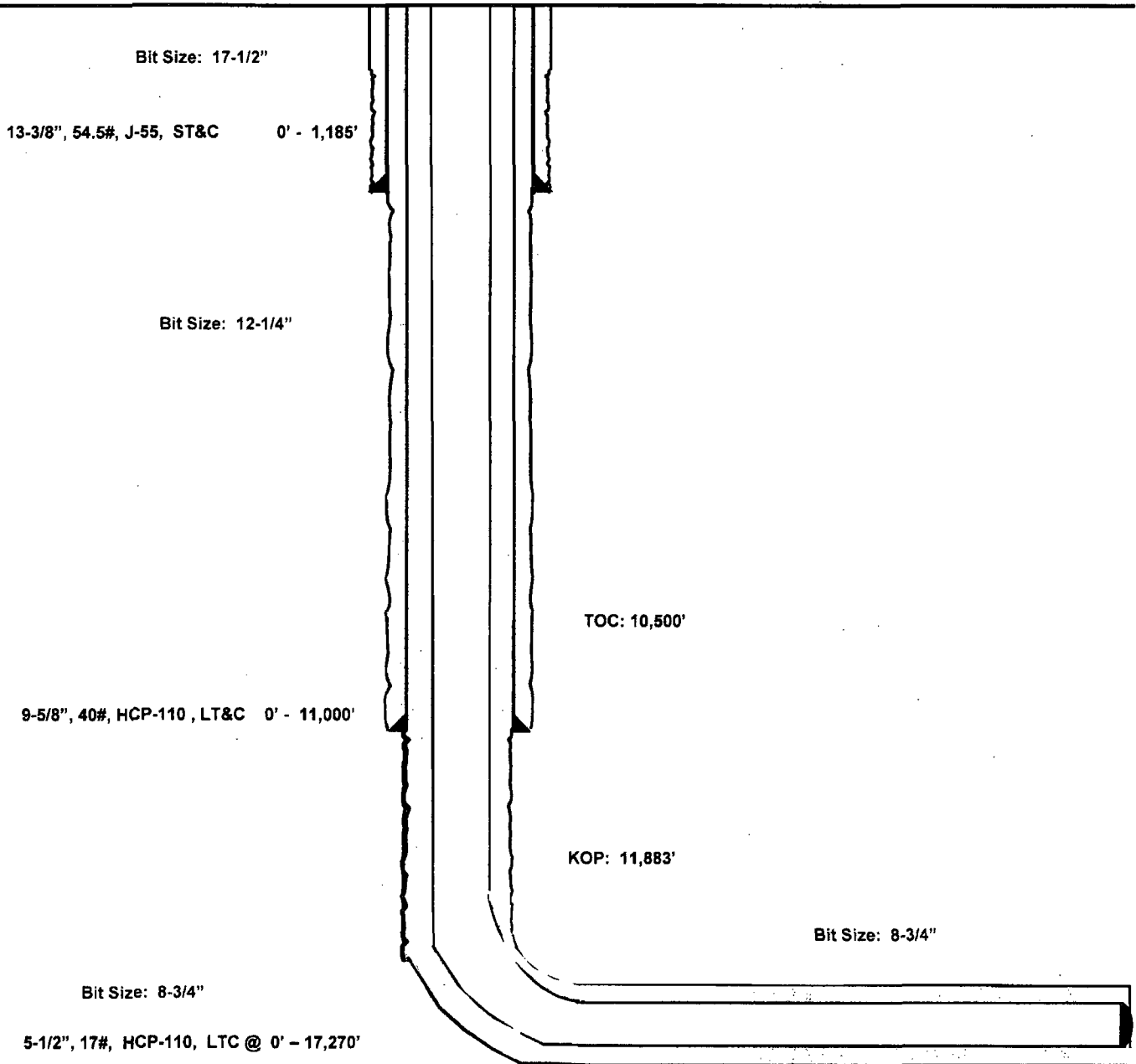
Dillon 31 #701H

**Lea County, New Mexico
Proposed Wellbore**

**341' FSL
2473' FEL
Section 31
T-24-S, R-34-E**

API: 30-025-*****

**KB: 3,470'
GL: 3,445'**



Lateral: 17,270' MD, 12,500' TVD

**BH Location: 230' FNL & 2260' FEL
Section 31
T-24-S, R-34-E**



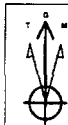
Lea County, NM (NAD 27 NME)

Dillon 31 #701H

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 3061
System Datum: Mean Sea Level



Asimuths to Grid North
True North: 0.00°
Magnetic North: 0.74°
Magnetic Field
Strength: 48154.5 nT
Dip Angle: 80.00°
Date: 2/4/2015
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 0.74°
To convert a Magnetic Direction to a True Direction, Add 7.18° East
To convert a True Direction to a Grid Direction, Subtract 0.44°

WELL DETAILS: #701H

Ground Level: 3449.0
KB = 25 @ 3470 Spot
+N-S +E-W Northing Easting Longitude Slot
0.0 0.0 425678.00 755359.00 32° 10' 3.388 N 103° 30' 28.564 W

SECTION DETAILS

Sec	MD	Inc	ALJ	TVD	+N-S	+E-W	Dleg	TFace	VFace	Target	Annotation
1	0.00	0.00	0.00	0.00	0.0	0.0	0.00	0.00	0.0		
2	9768.2	7.66	148.88	9763.9	-43.8	28.4	1.00	148.88	-42.8		
4	11803.9	7.56	148.58	11802.7	-235.4	172.6	0.00	0.00	-279.3		
6	12849.9	90.00	358.38	12800.0	284.2	209.8	10.00	-145.26	281.2		
8	17276.0	90.00	358.38	12800.0	4704.0	162.0	0.00	0.00	4708.8	PBHL (Dillon 31 #701H)	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
FTP (Dillon 31 #701H)	12809.5	-8.0	213.0	425687.00	756411.00	Point
PBHL (Dillon 31 #701H)	12800.0	4704.0	162.0	420380.00	766669.00	Rectangle (Sides: L0.0 W90.0)

