

Permit Information:

Well Name: Bandit 29 State Com No. 504Y

Location:

SL: 410' FNL & 2211' FEL, Section 29, T-24-S, R-33-E, Lea Co., N.M.

BHL: 2409' FNL & 2588' FEL, Section 32, T-24-S, R-33-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 - 1200'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4000' - 4900'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-18,587'	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
1200'	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
4,900'	900	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)
	225	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
18,587'	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 @ 4400')
	400	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 - 1200'	Fresh - Gel	8.6-8.8	28-34	N/c
1200' - 4,900'	Brine	10.0-10.2	28-34	N/c
4,900' - 10,662'	Cut Brine	8.4-9.0	28-34	N/c
10,662' - 18,587' Lateral	Cut Brine	9.0-9.5	40-42	8-10

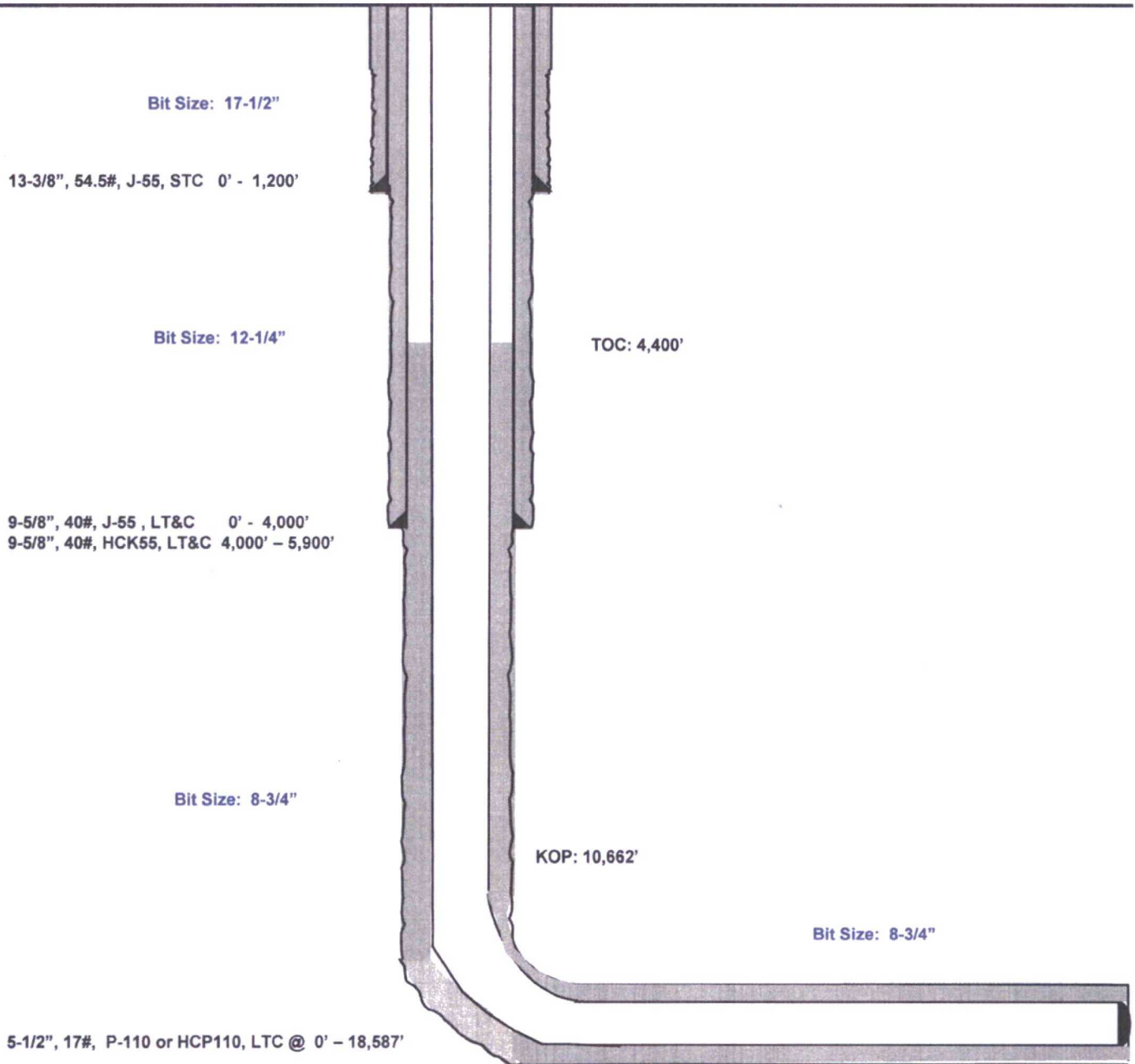
Bandit 29 State Com #504Y
Lea County, New Mexico

410' FNL
2211' FEL
Section 29
T-24-S, R-33-E

Proposed Wellbore

API: 30-025-*****

KB: 3,558'
GL: 3,533'



Lateral: 18,587' MD, 11,145' TVD

BH Location: 2409' FNL & 2588' FEL
Section 32
T-24-S, R-33-E



Lea County, NM (NAD 83 NME)

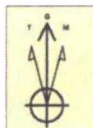
Bandit 29 State Com

#504Y

Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level



Azimuths to Grid North
True North: -0.40°
Magnetic North: 6.49°
Magnetic Field
Strength: 47845.3mT
Dip Angle: 60.02°
Date: 3/1/2016
Model: IGRF 2016

To convert a Magnetic Direction to a Grid Direction, Add 6.49°
To convert a Magnetic Direction to a True Direction, Add 6.89° East
To convert a True Direction to a Grid Direction, Subtract 0.38°

WELL DETAILS: #504Y

3533.0
KB + 25 @ 3558.0m
+N-S +E-W Northing Easting Longitude Slat
0.0 0.0 435381.00 770373.00 32° 11' 41.180 N 103° 39' 34.513 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4442.9	4.43	313.75	4442.4	11.8	-12.4	1.00	313.75	-11.3	
4	10661.6	4.43	313.75	10642.6	343.9	-359.2	0.00	0.00	-327.4	
5	11437.3	90.00	179.55	11145.0	-133.1	-383.3	12.00	-134.12	150.1	
6	18586.5	90.00	179.55	11145.0	-7282.0	-327.0	0.00	0.00	7289.3	PBHL(Bandit 29 St Com #504H)

WELLBONE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
PTT(Bandit 29 St Com #504H)	11145.9	77.9	-385.0	435468.00	768955.00	Point
PBHL(Bandit 29 St Com #504H)	11145.0	-7282.0	-327.0	435099.00	770046.00	Point

