



CONCHO

WELL DETAILS DOS XX 27 FED COM #3H
3545.7

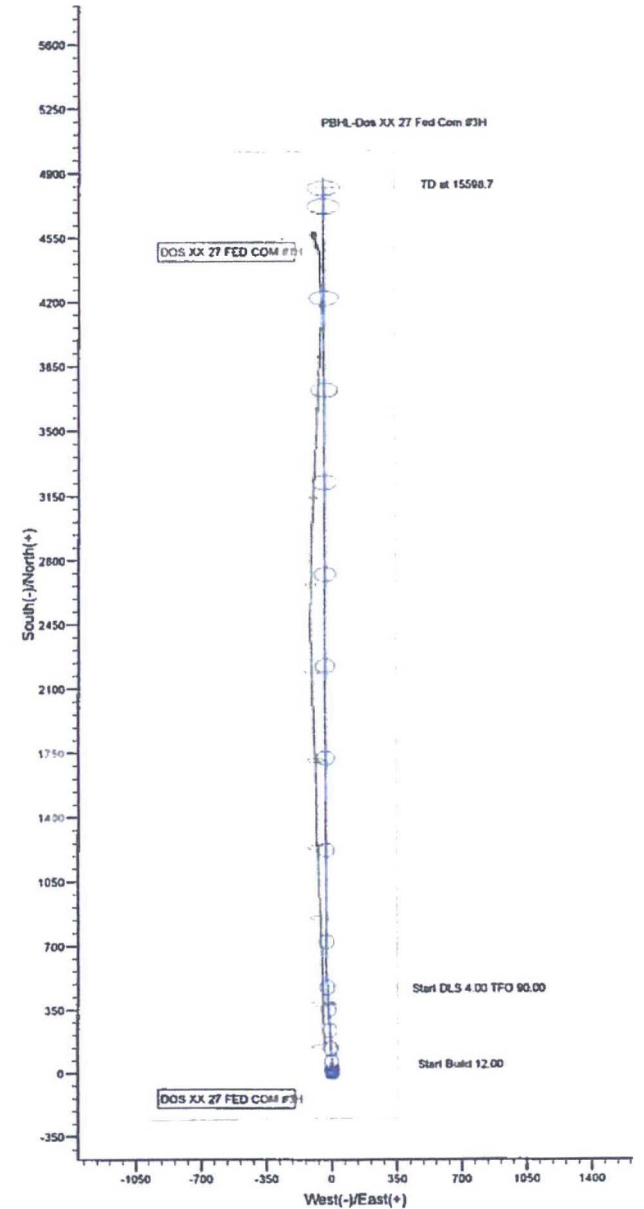
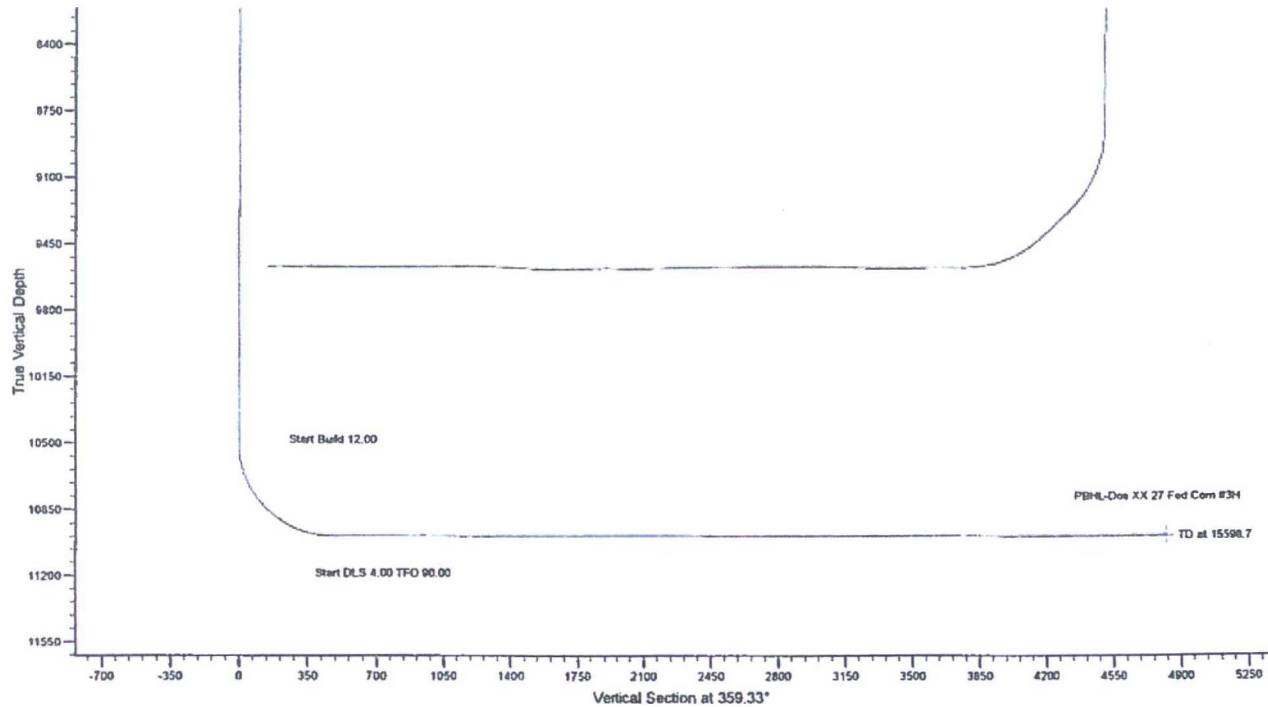
I-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
	0 0	430559.80	709975.20	32° 10' 54.858 N	103° 39' 16.728 W	

Project: LEA COUNTY, NM
Site: BULLDOG
Well: DOS XX 27 FED COM #3H
Wellbore: QWB
Design: PWP0

c	MD	Inc	Azi	TVD	SECTION DETAILS		Dleg	TFace	VSect	Annotation
					+N-S	+E-W				
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	10507.5	0.00	0.00	10507.5	0.0	0.0	0.00	0.00	0.0	
3	11257.6	90.00	356.50	10985.0	476.6	-29.2	12.00	356.50	476.9	
4	11336.9	90.00	359.67	10985.0	555.9	-31.8	4.00	90.00	558.2	
5	15598.7	90.00	359.67	10985.0	4817.6	-56.2	0.00	0.00	4817.9	

LEGEND

- DOS XX 27 FED COM #1H, QWB, ACTUAL WELLPATH V0
- PWP0





CONCHO

COG PRODUCTION LLC

LEA COUNTY, NM

BULLDOG

DOS XX 27 FED COM #3H

OWB

Plan: PWP0

Survey Report - Geographic

02 March, 2017

HOBBS OCD
APR 17 2017
RECEIVED



COG PRODUCTION LLC

Survey Report - Geographic

Company:	COG PRODUCTION LLC	Local Co-ordinate Reference:	Well DOS XX 27 FED COM #3H
Project:	LEA COUNTY, NM	TVD Reference:	RKB=3545.7+25 @ 3570.7usft
Site:	BULLDOG	MD Reference:	RKB=3545.7+25 @ 3570.7usft
Well:	DOS XX 27 FED COM #3H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP0	Database:	EDM_Users

Project	LEA COUNTY, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	BULLDOG				
Site Position:		Northing:	398,637.10 usft	Latitude:	32° 5' 36.820 N
From:	Map	Easting:	741,887.40 usft	Longitude:	103° 33' 8.116 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well	DOS XX 27 FED COM #3H					
Well Position	+N-S	0.0 usft	Northing:	430,559.80 usf	Latitude:	32° 10' 54.858 N
	+E-W	0.0 usft	Easting:	709,975.20 usf	Longitude:	103° 39' 16.726 W
Position Uncertainty	3.0 usft	Wellhead Elevation:	usf	Ground Level:	3,545.7 usf	

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM2015	3/2/2017	7.04	60.00	47,923.03385866

Design	PWP0			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.33

Survey Tool Program	Date 3/2/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	15,598.7	PWP0 (OWB)	MWD	OWSG MWD - Standard

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
100.0	0.00	0.00	100.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
200.0	0.00	0.00	200.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
300.0	0.00	0.00	300.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
400.0	0.00	0.00	400.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
500.0	0.00	0.00	500.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
600.0	0.00	0.00	600.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
700.0	0.00	0.00	700.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
800.0	0.00	0.00	800.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
900.0	0.00	0.00	900.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W



COG PRODUCTION LLC

Survey Report - Geographic

Company: COG PRODUCTION LLC
Project: LEA COUNTY, NM
Site: BULLDOG
Well: DOS XX 27 FED COM #3H
Wellbore: OWB
Design: PWP0

Local Co-ordinate Reference: Well DOS XX 27 FED COM #3H
TVD Reference: RKB=3545.7+25 @ 3570.7usft
MD Reference: RKB=3545.7+25 @ 3570.7usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM_Users

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,200.0	0.00	0.00	1,200.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
2,100.0	0.00	0.00	2,100.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
2,200.0	0.00	0.00	2,200.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
2,300.0	0.00	0.00	2,300.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
2,400.0	0.00	0.00	2,400.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
2,500.0	0.00	0.00	2,500.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
2,600.0	0.00	0.00	2,600.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
2,700.0	0.00	0.00	2,700.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
2,800.0	0.00	0.00	2,800.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
2,900.0	0.00	0.00	2,900.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
3,000.0	0.00	0.00	3,000.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
3,100.0	0.00	0.00	3,100.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
3,200.0	0.00	0.00	3,200.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
3,300.0	0.00	0.00	3,300.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
3,400.0	0.00	0.00	3,400.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
3,500.0	0.00	0.00	3,500.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
3,600.0	0.00	0.00	3,600.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
3,700.0	0.00	0.00	3,700.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
3,800.0	0.00	0.00	3,800.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
3,900.0	0.00	0.00	3,900.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
4,000.0	0.00	0.00	4,000.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
4,100.0	0.00	0.00	4,100.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
4,200.0	0.00	0.00	4,200.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
4,300.0	0.00	0.00	4,300.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
4,400.0	0.00	0.00	4,400.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
4,500.0	0.00	0.00	4,500.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
4,600.0	0.00	0.00	4,600.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
4,700.0	0.00	0.00	4,700.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
4,800.0	0.00	0.00	4,800.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
4,900.0	0.00	0.00	4,900.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
5,000.0	0.00	0.00	5,000.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
5,100.0	0.00	0.00	5,100.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
5,200.0	0.00	0.00	5,200.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
5,300.0	0.00	0.00	5,300.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
5,400.0	0.00	0.00	5,400.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
5,500.0	0.00	0.00	5,500.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
5,600.0	0.00	0.00	5,600.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
5,700.0	0.00	0.00	5,700.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
5,800.0	0.00	0.00	5,800.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
5,900.0	0.00	0.00	5,900.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
6,000.0	0.00	0.00	6,000.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
6,100.0	0.00	0.00	6,100.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
6,200.0	0.00	0.00	6,200.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
6,300.0	0.00	0.00	6,300.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
6,400.0	0.00	0.00	6,400.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
6,500.0	0.00	0.00	6,500.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
6,600.0	0.00	0.00	6,600.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W



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Survey Report - Geographic

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Wellbore: OWB
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Local Co-ordinate Reference: Well DOS XX 27 FED COM #3H
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,700.0	0.00	0.00	6,700.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
6,800.0	0.00	0.00	6,800.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
6,900.0	0.00	0.00	6,900.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
7,000.0	0.00	0.00	7,000.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
7,100.0	0.00	0.00	7,100.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
7,200.0	0.00	0.00	7,200.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
7,300.0	0.00	0.00	7,300.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
7,400.0	0.00	0.00	7,400.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
7,500.0	0.00	0.00	7,500.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
7,600.0	0.00	0.00	7,600.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
7,700.0	0.00	0.00	7,700.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
7,800.0	0.00	0.00	7,800.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
7,900.0	0.00	0.00	7,900.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
8,000.0	0.00	0.00	8,000.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
8,100.0	0.00	0.00	8,100.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
8,200.0	0.00	0.00	8,200.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
8,300.0	0.00	0.00	8,300.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
8,400.0	0.00	0.00	8,400.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
8,500.0	0.00	0.00	8,500.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
8,600.0	0.00	0.00	8,600.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
8,700.0	0.00	0.00	8,700.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
8,800.0	0.00	0.00	8,800.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
8,900.0	0.00	0.00	8,900.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
9,000.0	0.00	0.00	9,000.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
9,100.0	0.00	0.00	9,100.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
9,200.0	0.00	0.00	9,200.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
9,300.0	0.00	0.00	9,300.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
9,400.0	0.00	0.00	9,400.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
9,500.0	0.00	0.00	9,500.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
9,600.0	0.00	0.00	9,600.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
9,700.0	0.00	0.00	9,700.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
9,800.0	0.00	0.00	9,800.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
9,900.0	0.00	0.00	9,900.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
10,000.0	0.00	0.00	10,000.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
10,100.0	0.00	0.00	10,100.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
10,200.0	0.00	0.00	10,200.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
10,300.0	0.00	0.00	10,300.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
10,400.0	0.00	0.00	10,400.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
10,500.0	0.00	0.00	10,500.0	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
10,507.5	0.00	0.00	10,507.5	0.0	0.0	430,559.80	709,975.20	32° 10' 54.858 N	103° 39' 16.726 W
10,600.0	11.10	356.50	10,599.4	8.9	-0.5	430,568.71	709,974.65	32° 10' 54.946 N	103° 39' 16.731 W
10,700.0	23.10	356.50	10,694.8	38.2	-2.3	430,598.01	709,972.86	32° 10' 55.236 N	103° 39' 16.750 W
10,800.0	35.10	356.50	10,782.0	86.7	-5.3	430,646.46	709,969.90	32° 10' 55.716 N	103° 39' 16.781 W
10,900.0	47.10	356.50	10,857.3	152.2	-9.3	430,711.95	709,965.89	32° 10' 56.364 N	103° 39' 16.823 W
11,000.0	59.10	356.50	10,917.2	231.8	-14.2	430,791.62	709,961.02	32° 10' 57.153 N	103° 39' 16.873 W
11,100.0	71.09	356.50	10,959.2	322.2	-19.7	430,881.99	709,955.49	32° 10' 58.048 N	103° 39' 16.931 W
11,200.0	83.09	356.50	10,981.5	419.3	-25.6	430,979.10	709,949.55	32° 10' 59.009 N	103° 39' 16.993 W
11,257.6	90.00	356.50	10,985.0	476.6	-29.2	431,036.41	709,946.05	32° 10' 59.576 N	103° 39' 17.030 W
11,300.0	90.00	358.20	10,985.0	519.0	-31.1	431,078.81	709,944.08	32° 10' 59.996 N	103° 39' 17.049 W
11,336.9	90.00	359.67	10,985.0	555.9	-31.8	431,115.65	709,943.40	32° 11' 0.361 N	103° 39' 17.055 W
11,400.0	90.00	359.67	10,985.0	619.0	-32.2	431,178.80	709,943.04	32° 11' 0.986 N	103° 39' 17.054 W
11,500.0	90.00	359.67	10,985.0	719.0	-32.7	431,278.80	709,942.46	32° 11' 1.975 N	103° 39' 17.054 W
11,600.0	90.00	359.67	10,985.0	819.0	-33.3	431,378.80	709,941.89	32° 11' 2.965 N	103° 39' 17.053 W
11,700.0	90.00	359.67	10,985.0	919.0	-33.9	431,478.79	709,941.32	32° 11' 3.954 N	103° 39' 17.052 W
11,800.0	90.00	359.67	10,985.0	1,019.0	-34.5	431,578.79	709,940.75	32° 11' 4.944 N	103° 39' 17.052 W



COG PRODUCTION LLC

Survey Report - Geographic

Company: COG PRODUCTION LLC
Project: LEA COUNTY, NM
Site: BULLDOG
Well: DOS XX 27 FED COM #3H
Wellbore: OWB
Design: PWP0

Local Co-ordinate Reference: Well DOS XX 27 FED COM #3H
TVD Reference: RKB=3545.7+25 @ 3570.7usft
MD Reference: RKB=3545.7+25 @ 3570.7usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM_Users

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,900.0	90.00	359.67	10,985.0	1,119.0	-35.0	431,678.79	709,940.17	32° 11' 5.934 N	103° 39' 17.051 W
12,000.0	90.00	359.67	10,985.0	1,219.0	-35.6	431,778.79	709,939.60	32° 11' 6.923 N	103° 39' 17.050 W
12,100.0	90.00	359.67	10,985.0	1,319.0	-36.2	431,878.79	709,939.03	32° 11' 7.913 N	103° 39' 17.050 W
12,200.0	90.00	359.67	10,985.0	1,419.0	-36.7	431,978.79	709,938.46	32° 11' 8.902 N	103° 39' 17.049 W
12,300.0	90.00	359.67	10,985.0	1,519.0	-37.3	432,078.78	709,937.88	32° 11' 9.892 N	103° 39' 17.048 W
12,400.0	90.00	359.67	10,985.0	1,619.0	-37.9	432,178.78	709,937.31	32° 11' 10.882 N	103° 39' 17.048 W
12,500.0	90.00	359.67	10,985.0	1,719.0	-38.5	432,278.78	709,936.74	32° 11' 11.871 N	103° 39' 17.047 W
12,600.0	90.00	359.67	10,985.0	1,819.0	-39.0	432,378.78	709,936.16	32° 11' 12.861 N	103° 39' 17.046 W
12,700.0	90.00	359.67	10,985.0	1,919.0	-39.6	432,478.78	709,935.59	32° 11' 13.850 N	103° 39' 17.045 W
12,800.0	90.00	359.67	10,985.0	2,019.0	-40.2	432,578.78	709,935.02	32° 11' 14.840 N	103° 39' 17.045 W
12,900.0	90.00	359.67	10,985.0	2,119.0	-40.7	432,678.77	709,934.45	32° 11' 15.829 N	103° 39' 17.044 W
13,000.0	90.00	359.67	10,985.0	2,219.0	-41.3	432,778.77	709,933.87	32° 11' 16.819 N	103° 39' 17.043 W
13,100.0	90.00	359.67	10,985.0	2,319.0	-41.9	432,878.77	709,933.30	32° 11' 17.809 N	103° 39' 17.043 W
13,200.0	90.00	359.67	10,985.0	2,419.0	-42.5	432,978.77	709,932.73	32° 11' 18.798 N	103° 39' 17.042 W
13,300.0	90.00	359.67	10,985.0	2,519.0	-43.0	433,078.77	709,932.16	32° 11' 19.788 N	103° 39' 17.041 W
13,400.0	90.00	359.67	10,985.0	2,619.0	-43.6	433,178.77	709,931.58	32° 11' 20.777 N	103° 39' 17.041 W
13,500.0	90.00	359.67	10,985.0	2,719.0	-44.2	433,278.76	709,931.01	32° 11' 21.767 N	103° 39' 17.040 W
13,600.0	90.00	359.67	10,985.0	2,819.0	-44.8	433,378.76	709,930.44	32° 11' 22.757 N	103° 39' 17.039 W
13,700.0	90.00	359.67	10,985.0	2,919.0	-45.3	433,478.76	709,929.87	32° 11' 23.746 N	103° 39' 17.039 W
13,800.0	90.00	359.67	10,985.0	3,019.0	-45.9	433,578.76	709,929.29	32° 11' 24.736 N	103° 39' 17.038 W
13,900.0	90.00	359.67	10,985.0	3,119.0	-46.5	433,678.76	709,928.72	32° 11' 25.725 N	103° 39' 17.037 W
14,000.0	90.00	359.67	10,985.0	3,219.0	-47.0	433,778.76	709,928.15	32° 11' 26.715 N	103° 39' 17.037 W
14,100.0	90.00	359.67	10,985.0	3,319.0	-47.6	433,878.75	709,927.58	32° 11' 27.705 N	103° 39' 17.036 W
14,200.0	90.00	359.67	10,985.0	3,419.0	-48.2	433,978.75	709,927.00	32° 11' 28.694 N	103° 39' 17.035 W
14,300.0	90.00	359.67	10,985.0	3,519.0	-48.8	434,078.75	709,926.43	32° 11' 29.684 N	103° 39' 17.035 W
14,400.0	90.00	359.67	10,985.0	3,618.9	-49.3	434,178.75	709,925.86	32° 11' 30.673 N	103° 39' 17.034 W
14,500.0	90.00	359.67	10,985.0	3,718.9	-49.9	434,278.75	709,925.29	32° 11' 31.663 N	103° 39' 17.033 W
14,600.0	90.00	359.67	10,985.0	3,818.9	-50.5	434,378.75	709,924.71	32° 11' 32.653 N	103° 39' 17.033 W
14,700.0	90.00	359.67	10,985.0	3,918.9	-51.1	434,478.74	709,924.14	32° 11' 33.642 N	103° 39' 17.032 W
14,800.0	90.00	359.67	10,985.0	4,018.9	-51.6	434,578.74	709,923.57	32° 11' 34.632 N	103° 39' 17.031 W
14,900.0	90.00	359.67	10,985.0	4,118.9	-52.2	434,678.74	709,923.00	32° 11' 35.621 N	103° 39' 17.031 W
15,000.0	90.00	359.67	10,985.0	4,218.9	-52.8	434,778.74	709,922.42	32° 11' 36.611 N	103° 39' 17.030 W
15,100.0	90.00	359.67	10,985.0	4,318.9	-53.3	434,878.74	709,921.85	32° 11' 37.601 N	103° 39' 17.029 W
15,200.0	90.00	359.67	10,985.0	4,418.9	-53.9	434,978.74	709,921.28	32° 11' 38.590 N	103° 39' 17.028 W
15,300.0	90.00	359.67	10,985.0	4,518.9	-54.5	435,078.73	709,920.71	32° 11' 39.580 N	103° 39' 17.028 W
15,400.0	90.00	359.67	10,985.0	4,618.9	-55.1	435,178.73	709,920.13	32° 11' 40.569 N	103° 39' 17.027 W
15,500.0	90.00	359.67	10,985.0	4,718.9	-55.6	435,278.73	709,919.56	32° 11' 41.559 N	103° 39' 17.026 W
15,598.7	90.00	359.67	10,985.0	4,817.6	-56.2	435,377.40	709,919.00	32° 11' 42.535 N	103° 39' 17.026 W

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL-Dos XX 27 Fed	0.00	0.00	10,985.0	4,817.6	-56.2	435,377.40	709,919.00	32° 11' 42.535 N	103° 39' 17.026 W
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

Checked By: _____ Approved By: _____ Date: _____