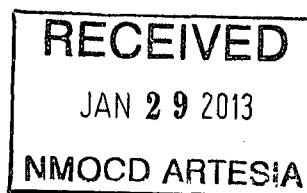


30-015-37571



Concho

**Eddy County, New Mexico (NAD 27)
GJ West Coop Unit #263**

Wellbore #1

Plan: Plan #1 01-25-13

Surface: 1065' FNL, 1095' FWL, Sec 22, T17S, R29E, Unit D

Top of Paddock @ 3970' TVD, 85' N of Surface, 115' W of Surface

BHL: 980' FNL, 980' FWL, Sec 22, T17S, R29E, Unit D

Standard Planning Report

25 January, 2013





Phoenix Technology Services

Planning Report



Database:	GCR DB	Local Co-ordinate Reference:	Well #263
Company:	Concho	TVD Reference:	GL @ 3547.00usft
Project:	Eddy County, New Mexico (NAD 27)	MD Reference:	GL @ 3547.00usft
Site:	GJ West Coop Unit	North Reference:	Grid
Well:	#263	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1: 01-25-13		

Project:	Eddy County, New Mexico (NAD 27)		
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:	GJ West Coop Unit		
Site Position:	Map	Northing:	663,691.60 usft
From:		Easting:	581,757.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 49' 27.4526 N
		Longitude:	104° 4' 1.8788 W
		Grid Convergence:	0.14 °

Well:	#263		
Well Position	+N-S	0.00 usft	Northing:
	+E-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:
			3,547.00 usft

Wellbore:	Wellbore #1		
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Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010_14	01/25/13	(°)	(°)	(nT)
			7.66	60.62	48,760

Design:	Plan #1: 01-25-13		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			306.40

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,303.77	3.08	306.40	1,303.69	2.45	-3.32	2.00	2.00	0.00	306.40	
3,820.00	3.08	306.40	3,816.31	82.55	-111.98	0.00	0.00	0.00	0.00	
3,973.77	0.00	0.00	3,970.00	85.00	-115.30	2.00	-2.00	0.00	180.00	TG1-GJ West Coop #
5,553.77	0.00	0.00	5,550.00	85.00	-115.30	0.00	0.00	0.00	0.00	PBHL-GJ West Coop



Phoenix Technology Services
Planning Report



Database:	GCR-DB	Local Co-ordinate Reference:	Well #263
Company:	Concho	TVD Reference:	GL @ 3547.00usft
Project:	Eddy County, New Mexico (NAD'27)	MD Reference:	GL @ 3547.00usft
Site:	GJ West Coop Unit	North Reference:	Grid
Well:	#263	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 01-25-13		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,050.00	0.00	0.00	1,050.00	0.00	0.00	0.00	0.00	0.00	0.00
8 5/8"									
1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 2.00									
1,200.00	1.00	306.40	1,200.00	0.26	-0.35	0.44	2.00	2.00	0.00
1,300.00	3.00	306.40	1,299.93	2.33	-3.16	3.93	2.00	2.00	0.00
1,303.77	3.08	306.40	1,303.69	2.45	-3.32	4.13	2.00	2.00	0.00
Start 2516.24 hold at 1303.77 MD									
1,400.00	3.08	306.40	1,399.79	5.51	-7.48	9.29	0.00	0.00	0.00
1,500.00	3.08	306.40	1,499.64	8.70	-11.79	14.65	0.00	0.00	0.00
1,600.00	3.08	306.40	1,599.50	11.88	-16.11	20.02	0.00	0.00	0.00
1,700.00	3.08	306.40	1,699.36	15.06	-20.43	25.38	0.00	0.00	0.00
1,800.00	3.08	306.40	1,799.21	18.25	-24.75	30.75	0.00	0.00	0.00
1,900.00	3.08	306.40	1,899.07	21.43	-29.07	36.11	0.00	0.00	0.00
2,000.00	3.08	306.40	1,998.92	24.61	-33.39	41.48	0.00	0.00	0.00
2,100.00	3.08	306.40	2,098.78	27.80	-37.70	46.84	0.00	0.00	0.00
2,200.00	3.08	306.40	2,198.64	30.98	-42.02	52.21	0.00	0.00	0.00
2,300.00	3.08	306.40	2,298.49	34.16	-46.34	57.57	0.00	0.00	0.00
2,400.00	3.08	306.40	2,398.35	37.35	-50.66	62.94	0.00	0.00	0.00
2,500.00	3.08	306.40	2,498.20	40.53	-54.98	68.30	0.00	0.00	0.00
2,600.00	3.08	306.40	2,598.06	43.71	-59.30	73.67	0.00	0.00	0.00
2,700.00	3.08	306.40	2,697.92	46.90	-63.61	79.03	0.00	0.00	0.00
2,800.00	3.08	306.40	2,797.77	50.08	-67.93	84.40	0.00	0.00	0.00
2,900.00	3.08	306.40	2,897.63	53.26	-72.25	89.76	0.00	0.00	0.00
3,000.00	3.08	306.40	2,997.48	56.45	-76.57	95.13	0.00	0.00	0.00
3,100.00	3.08	306.40	3,097.34	59.63	-80.89	100.49	0.00	0.00	0.00
3,200.00	3.08	306.40	3,197.20	62.81	-85.21	105.86	0.00	0.00	0.00
3,300.00	3.08	306.40	3,297.05	66.00	-89.52	111.22	0.00	0.00	0.00
3,400.00	3.08	306.40	3,396.91	69.18	-93.84	116.59	0.00	0.00	0.00
3,500.00	3.08	306.40	3,496.76	72.36	-98.16	121.95	0.00	0.00	0.00
3,600.00	3.08	306.40	3,596.62	75.55	-102.48	127.32	0.00	0.00	0.00
3,700.00	3.08	306.40	3,696.48	78.73	-106.80	132.68	0.00	0.00	0.00
3,800.00	3.08	306.40	3,796.33	81.92	-111.12	138.05	0.00	0.00	0.00
3,820.00	3.08	306.40	3,816.31	82.55	-111.98	139.12	0.00	0.00	0.00
Start Drop -2.00									
3,900.00	1.48	306.40	3,896.24	84.44	-114.54	142.30	2.00	-2.00	0.00
3,973.77	0.00	0.00	3,970.00	85.00	-115.30	143.24	2.00	-2.00	0.00
Start 1580.00 hold at 3973.77 MD - Top of Paddock - TG1-GJ West Coop #263									
5,553.77	0.00	0.00	5,550.00	85.00	-115.30	143.24	0.00	0.00	0.00
TD at 5553.77 - PBHL-GJ West Coop #263									



Phoenix Technology Services
Planning Report



Database:	GCR DB	Local Co-ordinate Reference:	Well #263
Company:	Concho	TVD Reference:	GL @ 3547.00usft
Project:	Eddy County, New Mexico (NAD 27)	MD Reference:	GL @ 3547.00usft
Site:	GJ West Coop Unit	North Reference:	Grid
Well:	#263	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1: 01-25-13		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
TG1-GJ West Coop #26: - plan hits target center - Point	0.00	0.00	3,970.00	85.00	-115.30	663,776.60	581,641.70	32° 49' 28.2965 N	104° 4' 3.2275 W
PBHL-GJ West Coop #2 - plan hits target center - Circle (radius 10.00)	0.00	0.00	5,550.00	85.00	-115.30	663,776.60	581,641.70	32° 49' 28.2965 N	104° 4' 3.2275 W

Casing Points				
Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
(usft)	(usft)	Name	(")	(")
1,050.00	1,050.00	8 5/8"	8-5/8	12-1/4

Formations				
Measured Depth	Vertical Depth	Name	Lithology	Dip Direction
(usft)	(usft)			(°)
3,973.77	3,970.00	Top of Paddock		0.00

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
1,150.00	1,150.00	0.00	0.00	KOP Start Build 2.00
1,303.77	1,303.69	2.45	-3.32	Start 2516.24 hold at 1303.77 MD
3,820.00	3,816.31	82.55	-111.98	Start Drop -2.00
3,973.77	3,970.00	85.00	-115.30	Start 1580.00 hold at 3973.77 MD
5,553.77	5,550.00	85.00	-115.30	TD at 5553.77



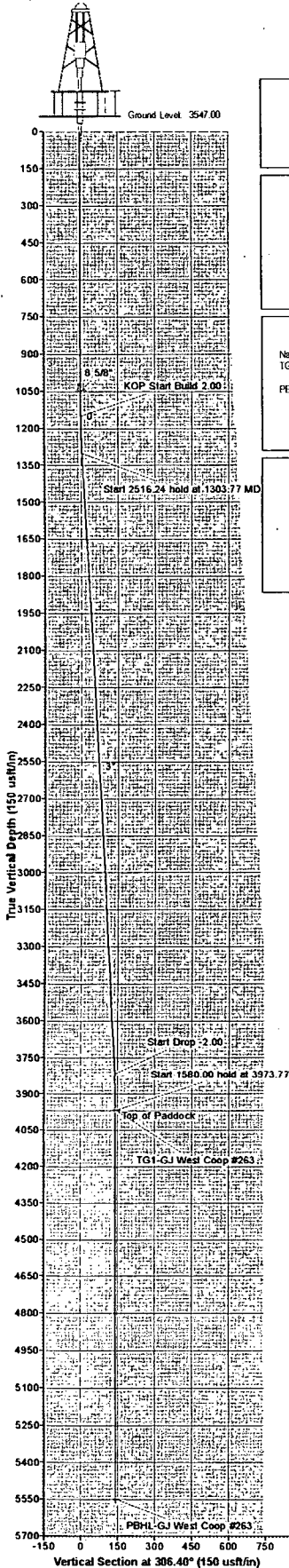
Project: Eddy County, New Mexico (NAD 27)
Site: GJ West Coop Unit
Well: #263
Wellbore: Wellbore #1
Design: Plan #1 01-25-13



PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North
True North: -0.14°
Magnetic North: 7.52°
Magnetic Field
Strength: 48760.4nT
Dip Angle: 60.62°
Date: 01/25/2013
Model: IGRF2010_14



WELL DETAILS						
	Ground Level	3547.00				
+N-S	-E-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	663691.60	581757.00	32° 49' 27.4526 N	104° 4' 1.8788 W	

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N-S	-E-W	Dleg	TFace	VFace	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1150.00	0.00	0.00	1150.00	0.00	0.00	0.00	0.00	0.00	KOP Start Build 2.00
3	1303.77	3.08	306.40	1303.69	2.45	-3.32	2.00	306.40	4.13	Start 2516.24 hold at 1303.77 MD
4	3820.00	3.08	306.40	3816.31	82.55	-111.98	0.00	0.00	139.12	Start Drop -2.00
5	3973.77	0.00	0.00	3970.00	85.00	-115.30	2.00	180.00	143.24	IG1-GJ West Coop #263
6	5553.77	0.00	0.00	5550.00	85.00	-115.30	0.00	0.00	143.24	PBHL-GJ West Coop #263

DESIGN TARGET DETAILS									
Name	TVD	+N-S	-E-W	Northing	Easting	Latitude	Longitude	Shape	
IG1-GJ West Coop #263	3970.00	85.00	-115.30	663776.60	581641.70	32° 49' 28.2965 N	104° 4' 3.2275 W	Point	
PBHL-GJ West Coop #263	5550.00	85.00	-115.30	663776.60	581641.70	32° 49' 28.2965 N	104° 4' 3.2275 W	Circle (Radius: 10.00)	

SITE DETAILS: GJ West Coop Unit	
Site Centre Northing	663691.60
Easting	581757.00
Positional Uncertainty	0.00
Convergence	0.14
Local North	Grid

PROJECT DETAILS: Eddy County, New Mexico (NAD 27)	
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

Map System: US State Plane 1927 (Exact solution)	
Datum	NAD 1927 (NADCON CONUS)
Ellipsoid	Clarke 1866
Zone Name	New Mexico East 3001
Local Origin	Well #263, Grid North
Latitude	32° 49' 27.4526 N
Longitude	104° 4' 1.8788 W
Grid East	581757.00
Grid North	663691.60
Scale Factor	1.000
Geomagnetic Model	IGRF2010_14
Sample Date	25-Jan-13
Magnetic Declination	7.65°
Dip Angle from Horizontal	60.62°
Magnetic Field Strength	48760
To convert a Magnetic Direction to a Grid Direction, Add 7.52°	
To convert a Magnetic Direction to a True Direction, Add 7.65° East	
To convert a True Direction to a Grid Direction, Subtract 0.14°	

FORMATION TOP DETAILS				
TVDPath	MDPath	Formation	DipAngle	DipDir
3970.00	3973.77	Top of Paddock	0.00	

CASING DETAILS				
TVD	MD	Name	Size	
1050.00	1050.00	8.56"	8.56"	

