



Concho

Eddy County, New Mexico (Nad27)

Patton 5 Fee #7H

Wellbore #1

30-015-39640

Plan: Plan 1 01-07-13

Surface: 982' FSL, 330' FWL, Sec 5, T19S, R26E, Unit M

BHL: 935' FSL, 330' FEL, Sec 5, T19S, R26E, Unit P

Standard Planning Report

09 January, 2013



Phoenix Planning Report

Database:	GCR:DB	Local Co-ordinate Reference:	Well Patton 5 Fee #7H
Company:	Concho	TVD Reference:	WELL @ 3377.00usft (Original Well Elev)
Project:	Eddy County, New Mexico (Nad27)	MD Reference:	WELL @ 3377.00usft (Original Well Elev)
Site:	Patton 5 Fee	North Reference:	Grid
Well:	Patton 5 Fee #7H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 01-07-13		

Project:	Eddy County, New Mexico (Nad27)		
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:	Patton 5 Fee		
Site Position:		Northing:	613,610.70 usft
From:	Map	Easting:	475,920.20 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	32° 41' 12.8058 N
		Longitude:	104° 24' 41.7618 W
		Grid Convergence:	-0.04 °

Well	Patton 5 Fee #7H					
Well Position	+N/-S	-658.90 usft	Northing:	612,951.80 usft	Latitude:	32° 41' 6.2866 N
	+E/-W	137.60 usft	Easting:	476,057.80 usft	Longitude:	104° 24' 40.1461 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,363.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	01/07/13	7.81	60.43	48,644

Design		Plan 1 01-07-13		
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	89.91

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	
2,409.57	0.00	0.00	2,409.57	0.00	0.00	0.00	0.00	0.00	0.00	
3,232.29	90.50	89.91	2,930.42	0.84	525.42	11.00	11.00	0.00	89.91	
7,313.64	90.50	89.91	2,894.80	7.40	4,606.60	0.00	0.00	0.00	0.00	BHL Patton 5 Fee #7H



Phoenix
Planning Report

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Site:	Patton 5 Fee	North Reference:	Grid
Well:	Patton 5 Fee #7H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 01-07-13		

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	
2,409.57	0.00	0.00	2,409.57	0.00	0.00	0.00	0.00	0.00	0.00	
KOP, Start Build 11.00										
2,500.00	9.95	89.91	2,499.55	0.01	7.83	7.83	11.00	11.00	0.00	
2,600.00	20.95	89.91	2,595.79	0.06	34.43	34.43	11.00	11.00	0.00	
2,700.00	31.95	89.91	2,685.18	0.13	78.90	78.90	11.00	11.00	0.00	
2,800.00	42.95	89.91	2,764.45	0.22	139.61	139.61	11.00	11.00	0.00	
2,900.00	53.95	89.91	2,830.68	0.34	214.33	214.33	11.00	11.00	0.00	
3,000.00	64.95	89.91	2,881.43	0.48	300.31	300.31	11.00	11.00	0.00	
3,100.00	75.95	89.91	2,914.85	0.63	394.40	394.40	11.00	11.00	0.00	
3,200.00	86.95	89.91	2,929.70	0.79	493.14	493.14	11.00	11.00	0.00	
3,232.29	90.50	89.91	2,930.42	0.84	525.42	525.42	11.00	11.00	0.00	
LP, Start 4081.35 hold at 3232.29 MD										
3,300.00	90.50	89.91	2,929.83	0.95	593.12	593.12	0.00	0.00	0.00	
3,400.00	90.50	89.91	2,928.95	1.11	693.12	693.12	0.00	0.00	0.00	
3,500.00	90.50	89.91	2,928.08	1.27	793.11	793.11	0.00	0.00	0.00	
3,600.00	90.50	89.91	2,927.21	1.43	893.11	893.11	0.00	0.00	0.00	
3,700.00	90.50	89.91	2,926.33	1.60	993.10	993.11	0.00	0.00	0.00	
3,800.00	90.50	89.91	2,925.46	1.76	1,093.10	1,093.10	0.00	0.00	0.00	
3,900.00	90.50	89.91	2,924.59	1.92	1,193.10	1,193.10	0.00	0.00	0.00	
4,000.00	90.50	89.91	2,923.72	2.08	1,293.09	1,293.09	0.00	0.00	0.00	
4,100.00	90.50	89.91	2,922.84	2.24	1,393.09	1,393.09	0.00	0.00	0.00	
4,200.00	90.50	89.91	2,921.97	2.40	1,493.08	1,493.09	0.00	0.00	0.00	
4,300.00	90.50	89.91	2,921.10	2.56	1,593.08	1,593.08	0.00	0.00	0.00	
4,400.00	90.50	89.91	2,920.23	2.72	1,693.08	1,693.08	0.00	0.00	0.00	
4,500.00	90.50	89.91	2,919.35	2.88	1,793.07	1,793.08	0.00	0.00	0.00	
4,600.00	90.50	89.91	2,918.48	3.04	1,893.07	1,893.07	0.00	0.00	0.00	
4,700.00	90.50	89.91	2,917.61	3.20	1,993.07	1,993.07	0.00	0.00	0.00	
4,800.00	90.50	89.91	2,916.74	3.36	2,093.06	2,093.06	0.00	0.00	0.00	
4,900.00	90.50	89.91	2,915.86	3.52	2,193.06	2,193.06	0.00	0.00	0.00	
5,000.00	90.50	89.91	2,914.99	3.68	2,293.05	2,293.06	0.00	0.00	0.00	
5,100.00	90.50	89.91	2,914.12	3.84	2,393.05	2,393.05	0.00	0.00	0.00	
5,200.00	90.50	89.91	2,913.24	4.00	2,493.05	2,493.05	0.00	0.00	0.00	
5,300.00	90.50	89.91	2,912.37	4.17	2,593.04	2,593.05	0.00	0.00	0.00	
5,400.00	90.50	89.91	2,911.50	4.33	2,693.04	2,693.04	0.00	0.00	0.00	
5,500.00	90.50	89.91	2,910.63	4.49	2,793.03	2,793.04	0.00	0.00	0.00	
5,600.00	90.50	89.91	2,909.75	4.65	2,893.03	2,893.03	0.00	0.00	0.00	
5,700.00	90.50	89.91	2,908.88	4.81	2,993.03	2,993.03	0.00	0.00	0.00	
5,800.00	90.50	89.91	2,908.01	4.97	3,093.02	3,093.03	0.00	0.00	0.00	
5,900.00	90.50	89.91	2,907.14	5.13	3,193.02	3,193.02	0.00	0.00	0.00	
6,000.00	90.50	89.91	2,906.26	5.29	3,293.01	3,293.02	0.00	0.00	0.00	
6,100.00	90.50	89.91	2,905.39	5.45	3,393.01	3,393.01	0.00	0.00	0.00	
6,200.00	90.50	89.91	2,904.52	5.61	3,493.01	3,493.01	0.00	0.00	0.00	
6,300.00	90.50	89.91	2,903.65	5.77	3,593.00	3,593.01	0.00	0.00	0.00	
6,400.00	90.50	89.91	2,902.77	5.93	3,693.00	3,693.00	0.00	0.00	0.00	
6,500.00	90.50	89.91	2,901.90	6.09	3,792.99	3,793.00	0.00	0.00	0.00	
6,600.00	90.50	89.91	2,901.03	6.25	3,892.99	3,893.00	0.00	0.00	0.00	
6,700.00	90.50	89.91	2,900.15	6.41	3,992.99	3,992.99	0.00	0.00	0.00	
6,800.00	90.50	89.91	2,899.28	6.57	4,092.98	4,092.99	0.00	0.00	0.00	
6,900.00	90.50	89.91	2,898.41	6.74	4,192.98	4,192.98	0.00	0.00	0.00	
7,000.00	90.50	89.91	2,897.54	6.90	4,292.97	4,292.98	0.00	0.00	0.00	
7,100.00	90.50	89.91	2,896.66	7.06	4,392.97	4,392.98	0.00	0.00	0.00	
7,200.00	90.50	89.91	2,895.79	7.22	4,492.97	4,492.97	0.00	0.00	0.00	
7,300.00	90.50	89.91	2,894.92	7.38	4,592.96	4,592.97	0.00	0.00	0.00	



Phoenix
Planning Report

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Project:	Eddy County, New Mexico (Nad27)	MD Reference:	WELL @ 3377.00usft (Original Well Elev)
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Wellbore:	Wellbore #1		
Design:	Plan 1 01-07-13		

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)	
7,313.64	90.50	89.91	2,894.80	7.40	4,606.60	4,606.61	0.00	0.00	0.00	
TD at 7313.64 - BHL Patton 5 Fee #7H										

Design Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BHL Patton 5 Fee #7H		0.00	360.00	2,894.80	7.40	4,606.60	612,959.20	480,664.40	32° 41' 6.3900 N	104° 23' 46.2446 W
- plan hits target center										
- Point										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N-S (usft)	+E-W (usft)	Comment	
2,409.57	2,409.57	0.00	0.00	KOP, Start Build 11.00	
3,232.29	2,930.42	0.84	525.42	LP, Start 4081.35 hold at 3232.29 MD	
7,313.64	2,894.80	7.40	4,606.60	TD at 7313.64	

Concho

Project: Eddy County, New Mexico (Nad27)
Site: Patton 5 Fee
Well: Patton 5 Fee #7H
Wellbore: Wellbore #1
Plan: Plan 1 01-07-13
Rig: UDI 40

PHOENIX
TECHNOLOGY SERVICES

WELL DETAILS: Patton 5 Fee #7H

Ground Level: 3363.00
Northing 612951.80 Easting 476057.80 32° 41' 6.2866 N 104° 24' 40.1461 W

FORMATION TOP DETAILS

No formation data is available

SECTION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	VSeal
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2409.57	0.00	0.00	2409.57	0.00	0.00	0.00	0.00	0.00
3232.29	80.50	89.91	2930.42	0.84	525.42	11.00	89.91	525.42
7313.64	80.50	89.91	2894.80	7.40	4606.80	0.00	0.00	4606.81

BHL Patton 5 Fee #7H

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
BHL Patton 5 Fee #7H	2894.80	7.40	4606.80	612959.20	480664.40	Point

ANNOTATIONS

TVD	MD	Annotation
2409.57	2409.57	KOP Start Build 11.00
2930.42	3232.29	LP Start 4081.35 hold at 3232.29 MD
2894.80	7313.64	TD at 7313.64

