



CONCHO

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Concho Resources, Inc.

Eddy County (NAD27 NME)

(Craig State) Sec-26_T-25-S_R-26-E

Craig State #15H

API# 30-015-43047

OWB

Design: AWB

Standard Survey Report

03 July, 2018

**Provide Signature Page for
Directional Survey**

INTREPID



Intrepid Survey Report



Company: Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
Site: (Craig State) Sec-26_T-25-S_R-26-E
Well: Craig State #15H
Wellbore: OWB
Design: AWB

Local Co-ordinate Reference: Well Craig State #15H
TVD Reference: KB @ 3298.6usft (Precision 106)
MD Reference: KB @ 3298.6usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.15 Single User Db

Project	Eddy County (NAD27 NME)		
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	(Craig State) Sec-26_T-25-S_R-26-E		
Site Position:		Northing:	397,464.00 usft
From:	Map	Easting:	528,080.90 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 5' 33.763 N
		Longitude:	104° 14' 33.565 W
		Grid Convergence:	0.05 °

Well	Craig State #15H		
Well Position	+N/-S	0.0 usft	Northing: 397,463.80 usft
	+E/-W	0.0 usft	Easting: 528,170.80 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 5' 33.761 N
		Longitude:	104° 14' 32.520 W
		Ground Level:	3,267.6 usft

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	05/07/18	7.16
			Dip Angle (°) 59.82
			Field Strength (nT) 47,698.19317028

Design	AWB		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°) 166.29

Survey Program	Date 07/03/18		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
100.0	5,743.0	SDI Gyro (OWB)	Standard Keeper 104
5,793.0	7,228.0	Intrepid MWD (OWB)	MWD
7,309.0	12,732.0	Intrepid MWD Crv/Lat Surcon (OWB)	MWD+IFR1+MS
			Description
			Standard Wireline Keeper ver 1.0.4
			OWSG MWD - Standard
			MWD + IFR1 + Multi-Station Correction

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.83	210.75	100.0	-0.6	-0.4	0.5	0.83	0.83	0.00
125.0	0.97	209.67	125.0	-1.0	-0.6	0.8	0.56	0.56	-4.32
150.0	0.68	212.30	150.0	-1.3	-0.8	1.1	1.17	-1.16	10.52
175.0	0.77	220.01	175.0	-1.5	-0.9	1.3	0.53	0.36	30.84
200.0	0.82	231.39	200.0	-1.8	-1.2	1.4	0.66	0.20	45.52
225.0	0.84	236.60	225.0	-2.0	-1.5	1.6	0.31	0.08	20.84
250.0	0.91	223.69	250.0	-2.2	-1.8	1.7	0.83	0.28	-51.64
275.0	0.87	221.76	275.0	-2.5	-2.0	2.0	0.20	-0.16	-7.72

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Craig State #15H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3298.6usft (Precision 106)
Site:	(Craig State) Sec-26_T-25-S_R-26-E	MD Reference:	KB @ 3298.6usft (Precision 106)
Well:	Craig State #15H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
300.0	0.83	215.53	300.0	-2.8	-2.3	2.2	0.40	-0.16	-24.92
325.0	0.81	220.26	325.0	-3.1	-2.5	2.4	0.28	-0.08	18.92
350.0	0.78	233.04	350.0	-3.3	-2.7	2.6	0.72	-0.12	51.12
375.0	0.80	234.44	375.0	-3.5	-3.0	2.7	0.11	0.08	5.60
400.0	0.82	236.10	400.0	-3.7	-3.3	2.8	0.12	0.08	6.64
425.0	0.78	227.05	425.0	-3.9	-3.6	3.0	0.53	-0.16	-36.20
450.0	0.77	226.19	450.0	-4.2	-3.8	3.1	0.06	-0.04	-3.44
475.0	0.70	229.02	475.0	-4.4	-4.1	3.3	0.32	-0.28	11.32
500.0	0.72	233.56	500.0	-4.6	-4.3	3.4	0.24	0.08	18.16
525.0	0.81	230.99	525.0	-4.8	-4.6	3.6	0.39	0.36	-10.28
550.0	0.80	232.53	550.0	-5.0	-4.8	3.7	0.10	-0.04	6.16
575.0	0.94	235.29	574.9	-5.2	-5.1	3.9	0.58	0.56	11.04
600.0	0.97	234.75	599.9	-5.5	-5.5	4.0	0.13	0.12	-2.16
625.0	1.04	233.10	624.9	-5.7	-5.8	4.2	0.30	0.28	-6.60
650.0	0.97	234.85	649.9	-6.0	-6.2	4.3	0.31	-0.28	7.00
675.0	0.96	231.06	674.9	-6.2	-6.5	4.5	0.26	-0.04	-15.16
700.0	0.95	232.76	699.9	-6.5	-6.9	4.7	0.12	-0.04	6.80
725.0	0.95	235.64	724.9	-6.7	-7.2	4.8	0.19	0.00	11.52
750.0	0.92	236.02	749.9	-7.0	-7.5	5.0	0.12	-0.12	1.52
775.0	0.54	233.48	774.9	-7.1	-7.8	5.1	1.53	-1.52	-10.16
800.0	0.10	249.47	799.9	-7.2	-7.9	5.1	1.78	-1.76	63
825.0	0.34	36.75	824.9	-7.2	-7.9	5.1	1.71	0.96	589.12
850.0	0.48	34.88	849.9	-7.0	-7.8	5.0	0.56	0.56	-7.48
875.0	0.46	34.05	874.9	-6.9	-7.7	4.8	0.08	-0.08	-3.32
900.0	0.32	48.99	899.9	-6.7	-7.6	4.7	0.69	-0.56	59.76
925.0	0.54	23.46	924.9	-6.6	-7.5	4.6	1.15	0.88	-102.12
950.0	0.46	21.42	949.9	-6.4	-7.4	4.4	0.33	-0.32	-8.16
975.0	0.42	23.36	974.9	-6.2	-7.3	4.3	0.17	-0.16	7.76
1,000.0	0.50	14.68	999.9	-6.0	-7.2	4.1	0.42	0.32	-34.72
1,025.0	0.58	4.37	1,024.9	-5.8	-7.2	3.9	0.50	0.32	-41.24
1,050.0	0.68	358.38	1,049.9	-5.5	-7.2	3.6	0.48	0.40	-23.96
1,075.0	0.51	4.24	1,074.9	-5.2	-7.2	3.4	0.72	-0.68	23.44
1,100.0	0.59	3.46	1,099.9	-5.0	-7.2	3.2	0.32	0.32	-3.12
1,125.0	0.63	15.91	1,124.9	-4.7	-7.1	2.9	0.55	0.16	49.80
1,150.0	1.02	39.15	1,149.9	-4.4	-7.0	2.7	2.03	1.56	92.96
1,175.0	1.29	48.31	1,174.9	-4.1	-6.6	2.4	1.31	1.08	36.64
1,200.0	1.49	57.52	1,199.9	-3.7	-6.1	2.2	1.20	0.80	36.84
1,225.0	1.78	59.04	1,224.9	-3.3	-5.5	1.9	1.17	1.16	6.08
1,250.0	2.04	64.11	1,249.9	-2.9	-4.8	1.7	1.24	1.04	20.28
1,275.0	2.36	66.53	1,274.9	-2.5	-3.9	1.5	1.33	1.28	9.68
1,300.0	2.47	66.95	1,299.8	-2.1	-2.9	1.4	0.45	0.44	1.68
1,325.0	2.52	68.98	1,324.8	-1.7	-1.9	1.2	0.41	0.20	8.12
1,350.0	2.61	66.81	1,349.8	-1.3	-0.9	1.1	0.53	0.36	-8.68

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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
1,375.0	2.63	69.67	1,374.8	-0.9	0.2	0.9	0.53	0.08	11.44
1,400.0	2.68	68.26	1,399.7	-0.5	1.3	0.7	0.33	0.20	-5.64
1,425.0	3.05	68.09	1,424.7	0.0	2.4	0.6	1.48	1.48	-0.68
1,450.0	3.33	67.84	1,449.7	0.5	3.7	0.4	1.12	1.12	-1.00
1,475.0	3.74	70.96	1,474.6	1.1	5.1	0.2	1.81	1.64	12.48
1,500.0	3.99	72.70	1,499.6	1.6	6.7	0.1	1.10	1.00	6.96
1,525.0	4.33	75.08	1,524.5	2.1	8.5	0.0	1.53	1.36	9.52
1,550.0	4.72	76.46	1,549.4	2.6	10.4	0.0	1.62	1.56	5.52
1,575.0	5.16	80.12	1,574.3	3.0	12.5	0.0	2.16	1.76	14.64
1,600.0	5.49	81.42	1,599.2	3.4	14.8	0.2	1.41	1.32	5.20
1,625.0	5.89	84.18	1,624.1	3.7	17.3	0.5	1.94	1.60	11.04
1,650.0	6.11	84.10	1,648.9	4.0	19.9	0.9	0.88	0.88	-0.32
1,675.0	6.27	84.43	1,673.8	4.2	22.5	1.2	0.66	0.64	1.32
1,700.0	6.53	84.26	1,698.6	4.5	25.3	1.6	1.04	1.04	-0.68
1,725.0	6.66	85.68	1,723.5	4.8	28.2	2.1	0.83	0.52	5.68
1,750.0	6.76	84.87	1,748.3	5.0	31.1	2.5	0.55	0.40	-3.24
1,775.0	6.79	84.98	1,773.1	5.3	34.0	3.0	0.13	0.12	0.44
1,800.0	6.85	85.76	1,798.0	5.5	37.0	3.4	0.44	0.24	3.12
1,825.0	6.86	86.38	1,822.8	5.7	40.0	3.9	0.30	0.04	2.48
1,850.0	6.82	84.76	1,847.6	5.9	42.9	4.4	0.79	-0.16	-6.48
1,875.0	6.74	85.87	1,872.4	6.2	45.9	4.9	0.61	-0.32	4.44
1,900.0	6.75	85.15	1,897.3	6.4	48.8	5.3	0.34	0.04	-2.88
1,925.0	6.73	86.74	1,922.1	6.6	51.7	5.8	0.75	-0.08	6.36
1,950.0	6.61	85.97	1,946.9	6.8	54.6	6.3	0.60	-0.48	-3.08
1,975.0	6.35	86.07	1,971.8	7.0	57.4	6.8	1.04	-1.04	0.40
2,000.0	6.40	85.46	1,996.6	7.2	60.2	7.3	0.34	0.20	-2.44
2,025.0	6.40	85.92	2,021.4	7.4	63.0	7.7	0.21	0.00	1.84
2,050.0	6.35	85.73	2,046.3	7.6	65.7	8.2	0.22	-0.20	-0.76
2,075.0	6.44	86.19	2,071.1	7.8	68.5	8.7	0.41	0.36	1.84
2,100.0	6.50	86.58	2,096.0	8.0	71.3	9.2	0.30	0.24	1.56
2,125.0	6.51	85.75	2,120.8	8.2	74.2	9.6	0.38	0.04	-3.32
2,150.0	6.59	85.64	2,145.6	8.4	77.0	10.1	0.32	0.32	-0.44
2,175.0	6.64	86.66	2,170.5	8.6	79.9	10.6	0.51	0.20	4.08
2,200.0	6.57	85.99	2,195.3	8.8	82.7	11.1	0.42	-0.28	-2.68
2,225.0	6.71	85.12	2,220.1	9.0	85.6	11.6	0.69	0.56	-3.48
2,250.0	6.67	84.79	2,245.0	9.2	88.5	12.0	0.22	-0.16	-1.32
2,275.0	6.70	85.05	2,269.8	9.5	91.4	12.4	0.17	0.12	1.04
2,300.0	6.78	85.09	2,294.6	9.7	94.4	12.9	0.32	0.32	0.16
2,325.0	6.75	86.23	2,319.5	10.0	97.3	13.4	0.55	-0.12	4.56
2,350.0	6.68	83.88	2,344.3	10.2	100.2	13.8	1.13	-0.28	-9.40
2,375.0	6.66	83.76	2,369.1	10.5	103.1	14.2	0.10	-0.08	-0.48
2,400.0	6.70	84.31	2,394.0	10.8	106.0	14.6	0.30	0.16	2.20
2,425.0	6.77	84.50	2,418.8	11.1	108.9	15.0	0.29	0.28	0.76

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2,450.0	6.80	85.04	2,443.6	11.4	111.8	15.4	0.28	0.12	2.16
2,475.0	6.81	83.62	2,468.4	11.7	114.8	15.9	0.67	0.04	-5.68
2,500.0	6.77	84.23	2,493.3	12.0	117.7	16.2	0.33	-0.16	2.44
2,525.0	6.82	84.03	2,518.1	12.3	120.7	16.6	0.22	0.20	-0.80
2,550.0	6.81	83.95	2,542.9	12.6	123.6	17.0	0.06	-0.04	-0.32
2,575.0	6.92	82.69	2,567.7	13.0	126.6	17.4	0.75	0.44	-5.04
2,600.0	7.00	75.99	2,592.5	13.5	129.6	17.6	3.26	0.32	-26.80
2,625.0	7.21	71.83	2,617.3	14.4	132.5	17.4	2.22	0.84	-16.64
2,650.0	7.18	70.57	2,642.1	15.4	135.5	17.2	0.64	-0.12	-5.04
2,675.0	7.10	70.32	2,667.0	16.4	138.4	16.8	0.34	-0.32	-1.00
2,700.0	7.11	69.40	2,691.8	17.5	141.3	16.5	0.46	0.04	-3.68
2,725.0	7.03	71.22	2,716.6	18.5	144.2	16.2	0.95	-0.32	-7.28
2,750.0	7.08	69.62	2,741.4	19.6	147.1	15.9	0.81	0.20	-6.40
2,775.0	6.98	70.55	2,766.2	20.6	150.0	15.5	0.61	-0.40	3.72
2,800.0	6.86	69.56	2,791.0	21.6	152.8	15.2	0.68	-0.48	-3.96
2,825.0	6.72	68.35	2,815.8	22.7	155.6	14.8	0.80	-0.56	-4.84
2,850.0	6.65	68.96	2,840.7	23.7	158.3	14.4	0.40	-0.28	2.44
2,875.0	6.05	74.28	2,865.5	24.6	160.9	14.2	3.36	-2.40	21.28
2,900.0	5.55	79.18	2,890.4	25.2	163.4	14.2	2.81	-2.00	19.60
2,925.0	5.45	79.67	2,915.3	25.6	165.7	14.4	0.44	-0.40	1.96
2,950.0	5.42	83.74	2,940.2	26.0	168.1	14.6	1.55	-0.12	16.28
2,975.0	5.44	79.95	2,965.0	26.3	170.4	14.8	1.44	0.08	-15.16
3,000.0	5.40	82.86	2,989.9	26.7	172.7	15.0	1.11	-0.16	11.64
3,025.0	5.39	81.74	3,014.8	27.0	175.1	15.3	0.42	-0.04	-4.48
3,050.0	5.36	82.68	3,039.7	27.3	177.4	15.5	0.37	-0.12	3.76
3,075.0	5.37	79.05	3,064.6	27.7	179.7	15.7	1.36	0.04	-14.52
3,100.0	5.41	81.95	3,089.5	28.1	182.0	15.9	1.10	0.16	11.60
3,125.0	5.35	83.09	3,114.4	28.4	184.3	16.1	0.49	-0.24	4.56
3,150.0	5.36	82.06	3,139.3	28.7	186.6	16.4	0.39	0.04	-4.12
3,175.0	5.35	82.13	3,164.2	29.0	189.0	16.6	0.05	-0.04	0.28
3,200.0	5.38	81.88	3,189.1	29.3	191.3	16.8	0.15	0.12	-1.00
3,225.0	5.35	82.99	3,213.9	29.6	193.6	17.1	0.43	-0.12	4.44
3,250.0	5.26	81.32	3,238.8	29.9	195.9	17.3	0.71	-0.36	-6.68
3,275.0	5.15	84.13	3,263.7	30.2	198.1	17.6	1.11	-0.44	11.24
3,300.0	5.04	82.96	3,288.6	30.5	200.3	17.9	0.61	-0.44	-4.68
3,325.0	4.94	82.81	3,313.5	30.8	202.5	18.1	0.40	-0.40	-0.60
3,350.0	4.78	83.03	3,338.5	31.0	204.6	18.4	0.64	-0.64	0.88
3,375.0	4.77	84.00	3,363.4	31.2	206.7	18.6	0.33	-0.04	3.88
3,400.0	4.73	81.99	3,388.3	31.5	208.7	18.9	0.68	-0.16	-8.04
3,425.0	4.61	83.57	3,413.2	31.8	210.7	19.1	0.70	-0.48	6.32
3,450.0	4.54	82.53	3,438.1	32.0	212.7	19.3	0.43	-0.28	-4.16
3,475.0	4.49	83.27	3,463.0	32.2	214.7	19.6	0.31	-0.20	2.96
3,500.0	4.65	81.67	3,488.0	32.5	216.6	19.8	0.82	0.64	-6.40
3,525.0	5.45	79.21	3,512.9	32.9	218.8	19.9	3.31	3.20	-9.84

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Craig State #15H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3298.6usft (Precision 106)
Site:	(Craig State) Sec-26_T-25-S_R-26-E	MD Reference:	KB @ 3298.6usft (Precision 106)
Well:	Craig State #15H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
3,550.0	6.24	77.62	3,537.7	33.4	221.3	20.0	3.23	3.16	-6.36
3,575.0	6.40	78.09	3,562.6	34.0	224.0	20.1	0.67	0.64	1.88
3,600.0	6.51	77.38	3,587.4	34.6	226.7	20.2	0.54	0.44	-2.84
3,625.0	6.58	77.42	3,612.3	35.2	229.5	20.2	0.28	0.28	0.16
3,650.0	6.43	77.55	3,637.1	35.8	232.3	20.3	0.60	-0.60	0.52
3,675.0	6.34	78.12	3,661.9	36.4	235.0	20.4	0.44	-0.36	2.28
3,700.0	6.43	77.86	3,686.8	37.0	237.7	20.4	0.38	0.36	-1.04
3,725.0	6.32	77.38	3,711.6	37.6	240.4	20.5	0.49	-0.44	-1.92
3,750.0	6.26	79.03	3,736.5	38.1	243.1	20.6	0.76	-0.24	6.60
3,775.0	6.19	78.28	3,761.3	38.6	245.8	20.7	0.43	-0.28	-3.00
3,800.0	6.22	77.35	3,786.2	39.2	248.4	20.8	0.42	0.12	-3.72
3,825.0	6.09	77.34	3,811.0	39.8	251.0	20.8	0.52	-0.52	-0.04
3,850.0	6.01	77.48	3,835.9	40.4	253.6	20.9	0.33	-0.32	0.56
3,875.0	5.88	76.96	3,860.8	41.0	256.1	20.9	0.56	-0.52	-2.08
3,900.0	5.68	76.36	3,885.6	41.5	258.6	20.9	0.84	-0.80	-2.40
3,925.0	5.59	75.30	3,910.5	42.1	261.0	20.9	0.55	-0.36	-4.24
3,950.0	5.48	76.90	3,935.4	42.7	263.3	20.9	0.76	-0.44	6.40
3,975.0	5.61	75.11	3,960.3	43.3	265.6	20.9	0.87	0.52	-7.16
4,000.0	6.25	72.28	3,985.2	44.0	268.1	20.8	2.81	2.56	-11.32
4,025.0	6.56	71.31	4,010.0	44.9	270.8	20.6	1.31	1.24	-3.88
4,050.0	6.64	71.76	4,034.8	45.8	273.5	20.3	0.38	0.32	1.80
4,075.0	6.65	72.17	4,059.7	46.7	276.2	20.1	0.19	0.04	1.64
4,100.0	6.68	71.25	4,084.5	47.6	279.0	19.9	0.44	0.12	-3.68
4,125.0	6.67	71.98	4,109.3	48.5	281.8	19.6	0.34	-0.04	2.92
4,150.0	6.63	72.00	4,134.2	49.4	284.5	19.4	0.16	-0.16	0.08
4,175.0	6.46	72.99	4,159.0	50.3	287.2	19.2	0.82	-0.68	3.96
4,200.0	6.30	71.11	4,183.8	51.1	289.9	19.0	1.05	-0.64	-7.52
4,225.0	6.07	72.03	4,208.7	52.0	292.4	18.8	1.00	-0.92	3.68
4,250.0	6.05	72.13	4,233.6	52.8	294.9	18.6	0.09	-0.08	0.40
4,275.0	5.95	71.42	4,258.4	53.6	297.4	18.4	0.50	-0.40	-2.84
4,300.0	5.77	71.51	4,283.3	54.4	299.8	18.2	0.72	-0.72	0.36
4,325.0	5.63	71.15	4,308.2	55.2	302.2	18.0	0.58	-0.56	-1.44
4,350.0	5.72	72.43	4,333.0	56.0	304.5	17.8	0.62	0.36	5.12
4,375.0	6.10	71.26	4,357.9	56.8	307.0	17.6	1.59	1.52	-4.68
4,400.0	6.94	73.00	4,382.8	57.7	309.7	17.4	3.45	3.36	6.96
4,425.0	7.21	72.92	4,407.6	58.6	312.6	17.2	1.08	1.08	-0.32
4,450.0	7.42	72.96	4,432.4	59.5	315.7	17.0	0.84	0.84	0.16
4,475.0	8.00	74.27	4,457.1	60.5	318.9	16.8	2.42	2.32	5.24
4,500.0	8.40	76.10	4,481.9	61.4	322.3	16.8	1.91	1.60	7.32
4,525.0	8.64	75.78	4,506.6	62.3	325.9	16.8	0.98	0.96	-1.28
4,550.0	8.64	75.49	4,531.3	63.2	329.6	16.7	0.17	0.00	-1.16
4,575.0	8.57	75.37	4,556.0	64.1	333.2	16.7	0.29	-0.28	-0.48
4,600.0	8.36	76.05	4,580.8	65.0	336.8	16.6	0.93	-0.84	2.72

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Craig State #15H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3298.6usft (Precision 106)
Site:	(Craig State) Sec-26_T-25-S_R-26-E	MD Reference:	KB @ 3298.6usft (Precision 106)
Well:	Craig State #15H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
4,625.0	8.17	75.99	4,605.5	65.9	340.2	16.6	0.76	-0.76	-0.24
4,650.0	8.04	75.66	4,630.3	66.8	343.7	16.6	0.55	-0.52	-1.32
4,675.0	7.74	75.76	4,655.0	67.6	347.0	16.5	1.20	-1.20	0.40
4,700.0	7.64	75.78	4,679.8	68.4	350.2	16.5	0.40	-0.40	0.08
4,725.0	7.42	76.04	4,704.6	69.2	353.4	16.5	0.89	-0.88	1.04
4,750.0	7.17	75.22	4,729.4	70.0	356.5	16.5	1.08	-1.00	-3.28
4,775.0	7.01	75.46	4,754.2	70.8	359.5	16.4	0.65	-0.64	0.96
4,800.0	7.02	76.21	4,779.0	71.6	362.4	16.4	0.37	0.04	3.00
4,825.0	7.09	78.21	4,803.8	72.2	365.4	16.4	1.02	0.28	8.00
4,850.0	7.13	82.27	4,828.6	72.8	368.5	16.6	2.02	0.16	16.24
4,875.0	7.01	84.04	4,853.4	73.1	371.5	17.0	0.99	-0.48	7.08
4,900.0	6.92	85.76	4,878.2	73.4	374.5	17.5	0.91	-0.36	6.88
4,925.0	7.00	85.61	4,903.1	73.6	377.6	18.0	0.33	0.32	-0.60
4,950.0	6.81	86.45	4,927.9	73.8	380.6	18.5	0.86	-0.76	3.36
4,975.0	7.04	86.42	4,952.7	74.0	383.6	19.0	0.92	0.92	-0.12
5,000.0	6.81	85.10	4,977.5	74.2	386.6	19.5	1.12	-0.92	-5.28
5,025.0	6.91	86.62	5,002.3	74.5	389.6	20.0	0.83	0.40	6.08
5,050.0	6.88	85.03	5,027.1	74.7	392.5	20.5	0.77	-0.12	-6.36
5,075.0	6.82	86.29	5,052.0	74.9	395.5	21.0	0.65	-0.24	5.04
5,100.0	7.00	86.68	5,076.8	75.1	398.5	21.5	0.74	0.72	1.56
5,125.0	7.11	83.95	5,101.6	75.3	401.6	22.0	1.41	0.44	-10.92
5,150.0	7.51	81.53	5,126.4	75.7	404.7	22.3	2.02	1.60	-9.68
5,175.0	7.75	81.04	5,151.2	76.2	408.0	22.6	0.99	0.96	-1.96
5,200.0	7.67	80.22	5,175.9	76.8	411.3	22.9	0.54	-0.32	-3.28
5,225.0	7.63	80.91	5,200.7	77.3	414.6	23.1	0.40	-0.16	2.76
5,250.0	7.54	81.34	5,225.5	77.8	417.9	23.4	0.43	-0.36	1.72
5,275.0	7.41	80.67	5,250.3	78.4	421.1	23.7	0.63	-0.52	-2.68
5,300.0	7.10	80.25	5,275.1	78.9	424.2	23.9	1.26	-1.24	-1.68
5,325.0	7.07	81.96	5,299.9	79.4	427.2	24.2	0.85	-0.12	6.84
5,350.0	7.12	81.56	5,324.7	79.8	430.3	24.5	0.28	0.20	-1.60
5,375.0	6.86	82.16	5,349.5	80.2	433.3	24.8	1.08	-1.04	2.40
5,400.0	6.85	82.73	5,374.3	80.6	436.3	25.1	0.28	-0.04	2.28
5,425.0	6.71	82.28	5,399.2	81.0	439.2	25.4	0.60	-0.56	-1.80
5,450.0	6.47	82.85	5,424.0	81.4	442.0	25.7	1.00	-0.96	2.28
5,475.0	6.61	83.00	5,448.8	81.7	444.9	26.0	0.56	0.56	0.60
5,500.0	6.87	81.37	5,473.7	82.1	447.8	26.3	1.29	1.04	-6.52
5,525.0	7.29	80.21	5,498.5	82.6	450.8	26.6	1.77	1.68	-4.64
5,550.0	7.42	79.33	5,523.3	83.2	454.0	26.8	0.69	0.52	-3.52
5,575.0	7.50	79.35	5,548.1	83.8	457.1	26.9	0.32	0.32	0.08
5,600.0	7.94	78.96	5,572.8	84.4	460.4	27.1	1.77	1.76	-1.56
5,625.0	8.08	77.66	5,597.6	85.1	463.9	27.2	0.92	0.56	-5.20
5,650.0	8.09	77.26	5,622.3	85.9	467.3	27.3	0.23	0.04	-1.60
5,675.0	8.09	77.27	5,647.1	86.7	470.7	27.4	0.01	0.00	0.04

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Craig State #15H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3298.6usft (Precision 106)
Site:	(Craig State) Sec-26_T-25-S_R-26-E	MD Reference:	KB @ 3298.6usft (Precision 106)
Well:	Craig State #15H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Builld Rate (°/100usft)	Turn Rate (°/100usft)
5,700.0	8.09	77.29	5,671.8	87.4	474.2	27.4	0.01	0.00	0.08
5,725.0	7.08	76.15	5,696.6	88.2	477.4	27.5	4.08	-4.04	-4.56
5,743.0	6.95	76.40	5,714.5	88.7	479.5	27.5	0.74	-0.72	1.39
Tie to SDI Gyro									
5,793.0	6.30	77.40	5,764.2	90.0	485.1	27.5	1.32	-1.30	2.00
5,887.0	4.70	79.80	5,857.7	91.8	493.9	27.8	1.72	-1.70	2.55
5,981.0	3.70	82.00	5,951.5	92.9	500.7	28.4	1.08	-1.06	2.34
6,074.0	5.20	52.00	6,044.2	96.0	507.0	26.9	2.92	1.61	-32.26
6,168.0	6.20	50.00	6,137.7	101.8	514.3	22.9	1.08	1.06	-2.13
6,262.0	5.40	39.50	6,231.3	108.5	521.0	18.1	1.41	-0.85	-11.17
6,354.0	7.30	52.00	6,322.7	115.5	528.3	13.1	2.54	2.07	13.59
6,448.0	6.50	71.70	6,416.0	120.8	538.1	10.2	2.64	-0.85	20.96
6,542.0	7.00	94.30	6,509.4	122.0	548.9	11.5	2.86	0.53	24.04
6,636.0	5.50	92.20	6,602.8	121.4	559.1	14.5	1.61	-1.60	-2.23
6,730.0	5.00	75.40	6,696.4	122.3	567.5	15.7	1.71	-0.53	-17.87
6,823.0	7.00	66.10	6,788.9	125.6	576.6	14.6	2.38	2.15	-10.00
6,915.0	7.50	83.20	6,880.2	128.6	587.7	14.4	2.40	0.54	18.59
7,007.0	6.10	82.00	6,971.5	130.0	598.5	15.6	1.53	-1.52	-1.30
7,099.0	4.60	90.70	7,063.1	130.6	607.1	17.0	1.85	-1.63	9.46
7,191.0	4.20	96.00	7,154.9	130.2	614.1	19.0	0.62	-0.43	5.76
7,228.0	4.40	101.20	7,191.8	129.8	616.8	20.1	1.18	0.54	14.05
TIE ON									
7,309.0	5.24	105.39	7,272.5	128.2	623.5	23.2	1.12	1.04	5.17
7,355.0	9.20	120.31	7,318.1	125.8	628.7	26.8	9.46	8.61	32.43
7,401.0	12.03	124.48	7,363.3	121.2	635.8	32.9	6.37	6.15	9.07
7,447.0	15.80	123.83	7,408.0	115.0	645.0	41.1	8.20	8.20	-1.41
7,493.0	20.48	128.99	7,451.7	106.5	656.4	52.1	10.75	10.17	11.22
7,540.0	25.49	133.97	7,494.9	94.3	670.1	67.2	11.43	10.66	10.60
7,586.0	29.58	138.80	7,535.7	78.9	684.7	85.7	10.12	8.89	10.50
7,632.0	34.28	142.76	7,574.7	60.0	700.0	107.6	11.18	10.22	8.61
7,678.0	38.24	146.30	7,611.8	37.8	715.8	132.9	9.73	8.61	7.70
7,725.0	42.38	149.20	7,647.7	12.1	732.0	161.7	9.67	8.81	6.17
7,772.0	45.90	147.56	7,681.4	-15.8	749.1	192.9	7.87	7.49	-3.49
7,819.0	50.73	146.18	7,712.6	-45.1	768.3	225.9	10.51	10.28	-2.94
7,866.0	55.46	144.44	7,740.9	-76.0	789.7	261.0	10.49	10.06	-3.70
7,867.3	55.58	144.39	7,741.6	-76.9	790.3	262.0	10.01	9.53	-3.71
FTP @ 7867.3'MD, 330'FNL & 724'FEL									
7,913.0	59.95	142.78	7,766.0	-108.0	813.3	297.7	10.01	9.55	-3.53
7,959.0	64.81	143.34	7,787.3	-140.5	837.8	335.1	10.62	10.57	1.22
8,005.0	70.46	146.49	7,804.8	-175.4	862.2	374.7	13.82	12.28	6.85
8,051.0	74.60	148.40	7,818.6	-212.3	885.8	416.2	9.83	9.00	4.15
8,086.3	80.58	149.19	7,826.2	-241.8	903.7	449.1	17.08	16.94	2.25
FTP (Craig State #15H) v2 - FTP (Craig State #15H)									
8,098.0	82.56	149.45	7,827.9	-251.8	909.6	460.1	17.08	16.94	2.19

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Craig State #15H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3298.6usft (Precision 106)
Site:	(Craig State) Sec-26_T-25-S_R-26-E	MD Reference:	KB @ 3298.6usft (Precision 106)
Well:	Craig State #15H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
8,143.0	88.76	148.48	7,831.3	-290.2	932.7	503.0	13.94	13.78	-2.16
8,190.0	91.46	150.81	7,831.2	-330.7	956.4	548.0	7.59	5.74	4.96
8,238.0	92.55	152.80	7,829.5	-373.0	979.1	594.4	4.72	2.27	4.15
8,285.0	92.91	152.59	7,827.3	-414.7	1,000.6	640.1	0.89	0.77	-0.45
8,332.0	91.24	153.47	7,825.6	-456.6	1,021.9	685.8	4.02	-3.55	1.87
8,379.0	90.73	153.49	7,824.8	-498.6	1,042.9	731.6	1.09	-1.09	0.04
8,426.0	90.76	155.80	7,824.2	-541.1	1,063.0	777.6	4.91	0.06	4.91
8,473.0	90.39	156.06	7,823.7	-584.0	1,082.2	823.9	0.96	-0.79	0.55
8,519.0	90.12	157.06	7,823.5	-626.2	1,100.5	869.2	2.25	-0.59	2.17
8,566.0	90.84	160.47	7,823.1	-670.0	1,117.5	915.8	7.41	1.53	7.26
8,613.0	90.89	162.65	7,822.4	-714.6	1,132.4	962.6	4.64	0.11	4.64
8,659.0	91.53	164.68	7,821.4	-758.7	1,145.3	1,008.5	4.63	1.39	4.41
8,705.0	91.43	167.35	7,820.2	-803.3	1,156.4	1,054.5	5.81	-0.22	5.80
8,752.0	89.33	169.44	7,819.9	-849.4	1,165.9	1,101.5	6.30	-4.47	4.45
8,799.0	88.46	170.97	7,820.8	-895.7	1,173.9	1,148.4	3.74	-1.85	3.26
8,845.0	87.09	174.26	7,822.6	-941.3	1,179.8	1,194.0	7.74	-2.98	7.15
8,891.0	85.50	177.66	7,825.6	-987.0	1,183.0	1,239.3	8.15	-3.46	7.39
8,924.0	85.92	178.64	7,828.1	-1,019.9	1,184.1	1,271.5	3.22	1.27	2.97
9,017.0	88.40	179.94	7,832.7	-1,112.8	1,185.2	1,362.0	3.01	2.67	1.40
9,109.0	88.16	180.16	7,835.4	-1,204.8	1,185.1	1,451.3	0.35	-0.26	0.24
9,159.4	88.30	180.21	7,837.0	-1,255.1	1,185.0	1,500.2	0.29	0.27	0.09
T1 (Craig State #15H) v2									
9,204.0	88.42	180.25	7,838.3	-1,299.7	1,184.8	1,543.5	0.29	0.27	0.09
9,298.0	89.32	181.95	7,840.1	-1,393.7	1,183.0	1,634.3	2.05	0.96	1.81
9,392.0	90.41	181.93	7,840.3	-1,487.6	1,179.8	1,724.9	1.16	1.16	-0.02
9,485.0	90.38	181.23	7,839.7	-1,580.6	1,177.3	1,814.6	0.75	-0.03	-0.75
9,578.0	90.71	181.52	7,838.8	-1,673.5	1,175.0	1,904.3	0.47	0.35	0.31
9,671.0	90.74	182.06	7,837.6	-1,766.5	1,172.1	1,994.0	0.58	0.03	0.58
9,765.0	91.68	181.96	7,835.6	-1,860.4	1,168.8	2,084.4	1.01	1.00	-0.11
9,858.0	90.25	180.18	7,834.1	-1,953.4	1,167.1	2,174.3	2.45	-1.54	-1.91
9,952.0	90.25	179.11	7,833.7	-2,047.4	1,167.7	2,265.8	1.14	0.00	-1.14
10,046.0	90.45	178.60	7,833.1	-2,141.4	1,169.6	2,357.5	0.58	0.21	-0.54
10,139.0	90.85	178.50	7,832.0	-2,234.3	1,171.9	2,448.4	0.44	0.43	-0.11
10,233.0	88.78	178.12	7,832.3	-2,328.3	1,174.7	2,540.3	2.24	-2.20	-0.40
10,328.0	89.31	178.02	7,833.9	-2,423.2	1,177.9	2,633.3	0.57	0.56	-0.11
10,423.0	89.93	177.53	7,834.6	-2,518.1	1,181.6	2,726.4	0.83	0.65	-0.52
10,517.0	90.37	177.24	7,834.3	-2,612.0	1,185.9	2,818.7	0.56	0.47	-0.31
10,610.0	89.77	178.97	7,834.2	-2,705.0	1,188.9	2,909.7	1.97	-0.65	1.86
10,704.0	88.18	179.84	7,835.9	-2,799.0	1,189.9	3,001.2	1.93	-1.69	0.93
10,799.0	88.20	180.01	7,838.9	-2,893.9	1,190.0	3,093.5	0.18	0.02	0.18
10,891.0	88.45	180.22	7,841.6	-2,985.9	1,189.8	3,182.8	0.35	0.27	0.23
10,983.0	89.10	180.56	7,843.5	-3,077.8	1,189.2	3,272.0	0.80	0.71	0.37
11,078.0	89.91	180.53	7,844.4	-3,172.8	1,188.3	3,364.1	0.85	0.85	-0.03
11,172.0	90.76	180.46	7,843.8	-3,266.8	1,187.5	3,455.2	0.91	0.90	-0.07

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Craig State #15H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3298.6usft (Precision 106)
Site:	(Craig State) Sec-26_T-25-S_R-26-E	MD Reference:	KB @ 3298.6usft (Precision 106)
Well:	Craig State #15H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)	
11,264.0	91.81	180.68	7,841.7	-3,358.8	1,186.6	3,544.3	1.17	1.14	0.24	
11,356.0	89.97	181.16	7,840.3	-3,450.8	1,185.1	3,633.3	2.07	-2.00	0.52	
11,449.0	90.50	180.79	7,839.9	-3,543.8	1,183.5	3,723.3	0.70	0.57	-0.40	
11,544.0	90.85	180.95	7,838.8	-3,638.7	1,182.1	3,815.2	0.41	0.37	0.17	
11,637.0	89.69	181.55	7,838.4	-3,731.7	1,180.1	3,905.1	1.40	-1.25	0.65	
11,730.0	90.10	181.65	7,838.5	-3,824.7	1,177.5	3,994.8	0.45	0.44	0.11	
11,824.0	88.31	181.83	7,839.8	-3,918.6	1,174.6	4,085.4	1.91	-1.90	0.19	
11,917.0	88.43	181.83	7,842.5	-4,011.5	1,171.6	4,174.9	0.13	0.13	0.00	
12,011.0	88.55	181.95	7,845.0	-4,105.5	1,168.5	4,265.4	0.18	0.13	0.13	
12,104.0	89.32	181.42	7,846.7	-4,198.4	1,165.8	4,355.1	1.01	0.83	-0.57	
12,196.0	89.92	181.45	7,847.3	-4,290.4	1,163.5	4,443.9	0.65	0.65	0.03	
12,291.0	90.57	181.22	7,846.9	-4,385.3	1,161.3	4,535.6	0.73	0.68	-0.24	
12,384.0	91.34	181.24	7,845.4	-4,478.3	1,159.3	4,625.5	0.83	0.83	0.02	
12,478.0	91.74	180.78	7,842.8	-4,572.3	1,157.6	4,716.3	0.65	0.43	-0.49	
12,572.0	92.69	181.03	7,839.2	-4,666.2	1,156.2	4,807.2	1.04	1.01	0.27	
12,601.6	92.14	181.31	7,837.9	-4,695.8	1,155.5	4,835.8	2.08	-1.87	0.93	
LTP (Craig State #15H) v3										
12,602.2	92.13	181.31	7,837.9	-4,696.3	1,155.5	4,836.4	2.08	-1.87	0.93	
LTP (Craig State #15H)										
12,602.5	92.12	181.31	7,837.9	-4,696.6	1,155.5	4,836.7	2.08	-1.87	0.93	
LTP (Craig State #15H) v2										
12,602.7	92.12	181.32	7,837.9	-4,696.8	1,155.5	4,836.9	2.08	-1.87	0.93	
LTP @ 12602.7'MD, 330'FSL & 352'FEL										
12,669.0	90.88	181.93	7,836.2	-4,763.1	1,153.6	4,900.8	2.08	-1.87	0.93	
LAST SVY										
12,731.7	90.88	181.93	7,835.2	-4,825.7	1,151.5	4,961.1	0.00	0.00	0.00	
PBHL (Craig State #15H) v3										
12,731.9	90.88	181.93	7,835.2	-4,825.9	1,151.5	4,961.3	0.00	0.00	0.00	
PBHL (Craig State #15H)										
12,732.0	90.88	181.93	7,835.2	-4,826.0	1,151.5	4,961.4	0.00	0.00	0.00	
Projection to TD @ 12732'MD, 200.7'FSL & 355.9'FEL - PBHL (Craig State #15H) v2										

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Craig State #15H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3298.6usft (Precision 106)
Site:	(Craig State) Sec-26_T-25-S_R-26-E	MD Reference:	KB @ 3298.6usft (Precision 106)
Well:	Craig State #15H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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									
FTP (Craig State #15H)	0.00	0.00	7,805.0	-77.6	1,184.5	397,386.15	529,355.28	32° 5' 32.982 N	104° 14' 18.751 W
- actual wellpath misses target center by 326.0usft at 8086.3usft MD (7826.2 TVD, -241.8 N, 903.7 E)									
- Point									
T1 (Craig State #15H)	0.61	180.09	7,830.0	-1,255.3	1,183.3	396,208.50	529,354.09	32° 5' 21.327 N	104° 14' 18.777 W
- actual wellpath misses target center by 7.2usft at 9159.4usft MD (7837.0 TVD, -1255.1 N, 1185.0 E)									
- Rectangle (sides W80.0 H583.5 D30.0)									
LTP (Craig State #15H)	0.31	180.09	7,849.3	-4,696.7	1,177.7	392,767.10	529,348.50	32° 4' 47.269 N	104° 14' 18.877 W
- actual wellpath misses target center by 24.9usft at 12601.6usft MD (7837.9 TVD, -4695.8 N, 1155.5 E)									
- Point									
PBHL (Craig State #15H)	0.32	180.09	7,850.0	-4,826.8	1,177.5	392,637.00	529,348.30	32° 4' 45.982 N	104° 14' 18.881 W
- actual wellpath misses target center by 29.9usft at 12731.7usft MD (7835.2 TVD, -4825.7 N, 1151.5 E)									
- Rectangle (sides W80.0 H3,571.5 D30.0)									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		
		+N/-S (usft)	+E/-W (usft)	Comment
5,743.0	5,714.5	88.7	479.5	Tie to SDI Gyro
7,228.0	7,191.8	129.8	616.8	TIE ON
7,867.3	7,741.6	-76.9	790.3	FTP @ 7867.3'MD, 330'FNL & 724'FEL
12,602.7	7,837.9	-4,696.8	1,155.5	LTP @ 12602.7'MD, 330'FSL & 352'FEL
12,669.0	7,836.2	-4,763.1	1,153.6	LAST SVY
12,732.0	7,835.2	-4,826.0	1,151.5	Projection to TD @ 12732'MD, 200.7'FSL & 355.9'FEL

Checked By: _____	Approved By: _____	Date: _____
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