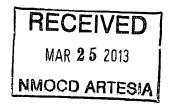


PHOENIX TECHNOLOGY SERVICES

March 20, 2013



Oil Conservation Division State of New Mexico 811 S. First St. Artesia, New Mexico 88210

Dear District 2 - Artesia

Re: Concho Resources Inc. Clydesdale 1 Fee #1H Eddy County, NM API #30-015-10214 Job No. 1310195

40214

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

| Name & Title of Surveyor | Drainhole Number | | veyed oths | Dates Pe | erformed | Type of |
|-----------------------------|---------------------|-------|---------------|----------|----------|------------|
| | | From | То | Start | End | Survey |
| Robert Dillon | 1H | 2,241 | 7,363 | 03/03/13 | 03/09/13 | MWD |

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Kelly Jo Walter

Kelly Jo Walter Operations Administrator

Certified mail receipt number: 7011 1570 0001 4364 9483

1805 Brittmoore Rd. Houston, TX 77043 • Phone (713) 337-0600 • Fax (713) 337-0599 www.phxtech.com

PHOENIX TECHNOLOGY SERVICES SURVEY DATA CERTIFICATION



MAR 2 5 2013 OPERATOR COG Operating PHOENIX JOB NUMBER 1310195 NMOCD ARTESIA Sec. 3 & Vy Eddy, NM

WELL NAME Clydesdale 1 Fee # 1H

in States Sec. 8

API WELL NUMBER 30-015-40214

PROPOSED DIF

| RECT | ION | 271:25 | ·. · | |
|------|-----|--------|------|--|
| | | | | |
| | | | | |

| TIE-IN DATA | · | | ······· | | · · · · · · · · · · · · · · · · · · · | |
|-------------|-------------|--------|---------|-------|---------------------------------------|--------|
| MEASURED | VERTICAL | | · · · | N-S | E-W | DATA |
| DEPTH | DEPTH | INCLIN | AZIMUTH | COORD | COORD | SOURCE |
| 2,149 ft | 2,148.62 ft | 1.86 | 278.09 | 11.41 | -31.88 | Gyro |

| FIRST | FIRST | | |
|----------|----------|--------|---------|
| SURVEY | SURVEY | | |
| DATE | DEPTH | INCLIN | AZIMUTH |
| 3-Mar-13 | 2,241 ft | 1.9 | 278.4 |

| LAST | LAST | - | |
|----------|----------|--------|---------|
| SURVEY | SURVEY | | |
| DATE | DEPTH | INCLIN | AZIMUTH |
| 9-Mar-13 | 7,363 ft | 92.7 | 271 |

| PROJECTED | PROJECTED | | |
|-----------|-----------|--------|---------|
| TD SURVEY | TD SURVEY | | |
| DATE | DEPTH | INCLIN | AZIMUTH |
| 9-Mar-13 | 7,424 ft | 92.7 | 271 |

MAGNETIC DECLINATION OR TOTAL GRID

| TOTAL CORRECTION USED | 7.86 |
|-----------------------|------|
| DECLINATION OR GRID | GRID |

SURVEY INSTRUMENT TYPE PHOENIX MWD

TO THE BEST OF MY KNOWLEDGE I **CERTIFY THIS SURVEY DATA TO BE** TRUE AND CORRECT.

PRINT, YOUR NAME ABOVE

SIGN YOUR NAME ABOVE

3-9-2013

TODAY'S DATE

MWD SUPERVISOR 1 MWD SUPERVISOR 2 Bob Dillon. Eric Burchinal

DIRECTIONAL DRILLER 1 Andrew Hodgkins DIRECTIONAL DRILLER 2 Nathan Hodgkins

1805 Brittmore Road

Houston, Texas 77043

(713)3370609 (Voice), (713)337-0599 (Fax)



COG Operating LLC Eddy County, New Mexico (NAD 27 NME) Clydesdale 1 Fee #1H Wellbore #1 / Job #1310195

Survey: Phoenix MWD Surveys

Survey Report

10 March, 2013



| <i>∛COTCHO</i> | | | | 32° 41' 44.717849 N 104° 25' 46.368925 W -0.05 ° | 32° 41' 44.717849 N 104° 25' 46.368925 W 3,434.00 usft | | | |
|----------------|---|---|------|--|---|--|---|--|
| J€ | rence Well #1H = RF @ 3447100usft (JW 4) = RF @ 3447100usft (JW 4) = RF @ 3447100usft (JW 4) = Gid find find for the final state of the fi | Mean Sea Level | | Latitude: Longitude: Grid Convergence: | Latitude: Longitude: Ground Level: | 9h) 55 | | |
| ort | LocalCo-ordinate Reference LocalCo-ordinate Reference TVD Reference MD Reference North Reference Survey Calculation Method Database | System Datum: | | 616,840.10 usft La 470,401.70 usft La 13-3/16 "G | 616,840.10 usft 470,401.70 usft usft | Field Stren | | Direction 34 1 |
| Survey Report | | | | Northing: Easting: Slot Radius: | Northing: 6 Basting: 4 Wellhead Elevation: | colination Colination 7.81 | Tie On Depth: | (1) (1) 00 000 |
| · | Company: COG Operating ILCC Project Eddy County, New Mexico (NAD) 27/ NME) Stie Wellbore: # 11 Wellbore: # 11/Job # 13101955 Wellbore: # 11/Job # 13101955 | New Mexco (NAD)27/NME) (Exact solution) CONUS) 1 | | st 1 | entropy of the second se 0.00 using the second | 000 #1310195 Sample Date 2010 02/14/13 | 100 #1310195 | pth From (TVD) (usrt) (usrt) 0.00 0.00 0.00 |
| | COG Operating LLC Edgy County New Mexic Edgy County New Mexic Cydesdalet Fee 7.5 #1H #1H Wellbore #1//Job#1310 | m: US State Plane 1927 (Exact solution) m: NAD 1927 (NADCON CONUS) New Mexico East 3001 | | Site Position: From: Map Position Uncertainty: 0.00 usft | | Weilbore A Wellbore #11.Job #1310195 Magnetics Model Name Sample Date IGRF2010_14 02/14/13 | Audit Notes: 1.0 Phase: ACTL | Vertical Section: From (TVD) (1950) 0.00 |
| | Company: Project: Site Welli Wellbore: Design | Recipect Map System: Geo Datum: Map Zone: | Site | Site Position: From: Position Unce | Well Position + Vell Position + Position Uncertainty | Wellbore Magnetics | - Designary Audit Notes: Version: | Vertical St |

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Page 2

COMPASS 5000.1 Build 56

| 9 | | | Easting (ush) | 470,305.02 470,366.84 | 470,365.66 | 470,363.82 470,360,94 | 470.356.62 | 470,351.20 | 470,344.54 | 470,336.62 | 470,327.03 | 470,316.23 | 470,302.85 | 470,287.08 | 470,267.92 | 470,247.17 | 470,225.03 | 470,201.82 | 470,177.45 | 470,152.04 | 470,124.90 | COMPASS 5000.1 Build 56 |
|---------------|---|--|--|--|---|--------------------------|----------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------------------|
| ⇒ COTCH(| 66: 14 Well #1H 3.5 (100 4) RF-@ 3447.00ush (JW 4) RF-@ 3447.00ush (JW 4) RF-@ 3447.00ush (JW 4) RF-@ 3447.00ush (JW 4) Grid Grid Grid CCR:DB.45000 | | | 010,001.01 | 616,852.08 | 616,852.18 e1e ee2 27 | 616.852.47 | 616,852.88 | 616,853.42 | 616,853.95 | 616,854.39 | 616,854,64 | 616,854.31 | 616,853.41 | 616,852.11 | 616,850.74 | 616,849.58 | 616,848.65 | 616,847.91 | 616,847.50 | 616,847.55 | COMPASS 5 |
| | Vei #114 F. @ 3447.00ust F. @ 3447.00ust F. @ 3447.00ust F. @ 3447.00ust F. @ 3447.00ust F. @ 3447.00ust F. @ 3447.00ust | | 0.00 | | 1.97 | 5.84 | 7.54 | 7.78 | 7.42 | 8.12 | 8.51 | 10.46 | 17.81 | 20.34 | 19.42 | 13.98 | 8.90 | 10.10 | 11.36 | 10.11 | 9.14 | |
| | Reference: Method Method | | ((12)) ((| عد الا 14 فرانية المسلم 35.11 | 36.30 36.30 | 38.13 41.05 | 45.34 | 50.76 | 57.44 | 65.37 | 74.96 | 85.77 | 99.14 | 114.88 | - 134.01 | 154.73 | 176.83 | 200.02 | 224.36 | 249.77 | 276.89 | |
| | Local Co-ordinate Local Co-ordinate TVO) Reference: WD/Reference: Survey Calculatio Database: | ag ag ag | LEN LEN LEN | | · · · · · · · · · · · · · · · · · · · | -37.88 40.70 | 45.08 | -50.50 | -57.16 | -65.08 | -74.67 | -85.47 | -98.85 | -114.62 | -133.78 | -154.53 | -176.67 | -199.88 | -224.25 | -249.66 | -276.80 | |
| Survey Report | Local Co-ordinate References TVOIReterence: MDReference: North Reference: Survey Calculation Method: Survey Calculation Method: Database: | MVD - Standard | | 11.41 전문문은 2012년 7 11.84 | 194 | 12.08 | 12.17 | 12.78 | 13.32 | 13.85 | 14.29 | 14.54 | 14.21 | 13.31 | 12.01 | 10.64 | 9.48 | 8.55 | 7.81 | 7.40 | 7.45 | |
| Survey | | ATOCINAME 3 MVD b MVD | | 2,148.62 영제: 112:43:55 전 112:13 2,240.57 | 2.271.55 | 2,302.49 2,222.25 | 2,355,06 2,365,06 | 2,395.58 | 2,425.85 | 2,455.81 | 2,486.34 | 2,515.39 | 2,544.44 | 2,571.10 | 2,596.67 | 2,619.65 | 2,641.32 | 2,661.84 | 2,680.98 | 2,698.72 | 2,715.68 | Page 3 |
| | | | 270-26- 2 | -1,298.36 | -1.175.45 | -1,144.51 4 442.65 | -1,113.03 | -1,051.42 | | -991.19 | -960.66 | -931.61 | -902.56 | -875.90 | -850.33 | -827.35 | -805.68 | -785.16 | -766.02 | -748.28 | -731.32 | |
| | 0(NMD)271NME) 95 | 3 Weilbore) Surveys (Wellbore) NMVD Surveys | (c) | 278.40 전국학자 1228.40 278.40 | | 272.10 | 271.0U 273.5N | 274.80 | 274.50 | 273.30 | 272.10 | 270.60 | 267.00 | 266.50 | 265.80 | 266.60 | 267.40 | 268.00 | 268.50 | 269.60 | 270.60 | |
| | Deraining (LLC) -) Junny: New Mexico ale 1/ Fee | Date 03/10/13 To Survey Wellbore) 2.149.00 VES Gyro Surveys (Wellbore #1 / Job #13 7,424.00 Phoenix MWD Surveys (Wellbore #1 / Job | inc Azi | 1.86 | VD Survey (7) 2.50 | 4.30 | UC.0 | 11.30 | 13.60 | 16.10 | 18.80 | 22.00 | 27.50 | 33.80 | 40.00 | 44.30 | 47.00 | 50.10 | 53.60 | 56.60 | 59.40 | |
| | Company Project State Project State Site: State Cydesdafe I Fee Well: Wellbore: #1/100 #1310195 Mellbore: #1/100 #1310195 Mellbore: #1/100 #1310195 | Survey)Program Date 03/10/13 From To (ustt) (ustt) Survey Willbore) 100.00 2.149.00 VES Gyro Surveys (Wellbore #17.42 2.241.00 7,424.00 Phoenix MWD Surveys (Wellbore #17.45 | (new constraint) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c | 2,149.00 1.86 2.8.09 -1,298.38 2,148.02 11,41 -31.08 35.12 0.00 010,091.01 470,000 2,241,00 11,90 35.11 0.04 616,851.94 470,306 2,241.00 1.90 278.40 -1,206.43 2,240.57 11.84 -34.86 35.11 0.04 616,851.94 470,366 | Cirst Phoenix MWD Survey 71 250 275.30 275.30 | 2,303.00 | 2,334.UU 2 366 00 | 2.397.00 | 2,428.00 | 2,459.00 | 2,491.00 | 2,522.00 | 2,554.00 | 2,585.00 | 2,617.00 | 2,648.00 | 2,679.00 | 2,710.00 | 2,741.00 | 2,772.00 | 2,804.00 | 03/10/13 8:10:44AM |

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 Company:
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Survey Report

COMPASS 5000.1 Build 56

Page 4

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| | | Easting Easting (usrt) 468,208.97 | 468,116.04 468,022.09 467 028 13 | 401,520.13 |
|---------------|---|---|--|------------|
| | 0000th (J/W 4) 0000th (J/W 4) 0000th (J/W 4) 0000th (J/W 4) | Northing (usth) 616,893.71 | 616,894.52 616,895.50 616 806 40 | 010,020,40 |
| | Well #114 P.1. RF @ 3447:00ust (JV RF @ 3447:00ust (JV RF @ 3447:00ust (JV Minmum Curvature GCR DB v5000 | ((100ust)) | 0.39 0.85 | 47° |
| | alo Réference : | V. Sec. V. Sec. (ush) 2,193.37 | 2,286.31 2,380.25 2,474 21 | 2,4/4.21 |
| | Local Co-ordina Local Co-ordina TVD Reference MD Reference North Reference Survey Calculati Database | EW (ust) -2, 192.73 | -2,285.66 -2,379.61 -2,473.57 | 10.014,2- |
| Survey Report | | NIS (usft) 53.61 | 54.42 55.40 55.30 | 00.00 |
| Su | | , TVD , TVD (US f) 2,747.45 | 2,744.12 2,741.17 2,738 71 | 2,138.11 |
| | | (11) SSOUT (11) (11) (12) (12) (12) (12) (12) (12) | -702.88 -705.83 709 20 | R7'80/- |
| | AD 217 NME) | muth) 270.40 | 270.60 270.60 | NC.U/2 |

| | re #1 /Job #1310 re #1 /Job #1310 | | | | | MD Reference: North Reference: Survey Calculation Method: Octobase: | and the second second second | R Grid F Minimum Curvature GCR DB v5000 | Gide : | |
|----------|--------------------------------------|--------|-------------------------|----------|-------|--|------------------------------|---|------------|------------|
| | 200 | | t INDESS Internet | | 2 | EW [| V Sec. | Diegostinis | Northing | Easting |
| 4,738.00 | 6 | 270.40 | -699.55 | 2,747.45 | | -2,192.73 | 2,193.37 | 1.17 | 616,893.71 | 468,208.97 |
| 4,831.00 | 92.20 | 270.60 | -702.88 | 2,744.12 | 54.42 | -2,285.66 | 2,286.31 | 0.39 | 616,894.52 | 468,116.04 |
| 4,925.00 | 91.40 | 270.60 | -705.83 | 2,741.17 | 55.40 | -2,379.61 | 2,380.25 | 0.85 | 616,895.50 | 468,022.09 |
| 5,019.00 | 91.60 | 270.50 | -708.29 | 2,738.71 | 56.30 | -2,473.57 | 2,474.21 | 0.24 | 616,896.40 | 467,928.13 |
| 5,113.00 | 91.80 | 270.00 | -711.08 | 2,735.92 | 56.71 | -2,567.53 | 2,568.16 | 0.57 | 616,896.81 | 467,834.17 |
| 5,206.00 | 92.00 | 270.60 | -714.16 | 2,732.84 | 57.20 | -2,660.48 | 2,661.09 | 0.68 | 616,897.30 | 467,741.22 |
| 5,300.00 | 92.60 | 272.00 | -717.94 | 2,729.06 | 59.33 | -2,754.38 | 2,755.02 | 1.62 | 616,899.43 | 467,647.32 |
| 5,393.00 | 93.20 | 271.20 | -722.64 | 2,724.36 | 61.93 | -2,847.22 | 2,847.89 | 1.07 | 616,902.03 | 467,554.48 |
| 5,487.00 | 93.10 | 272.10 | -727.81 | 2,719.19 | 64.63 | -2,941.04 | 2,941.75 | 0.96 | 616,904.73 | 467,460.66 |
| 5,581.00 | 93.60 | 272.00 | -733.30 | 2,713.70 | 67.98 | -3,034.82 | 3,035.58 | 0.54 | 616,908.08 | 467,366.88 |
| 5,674.00 | 92.60 | 272.10 | -738.33 | 2,708.67 | 71.31 | -3,127.62 | 3,128.43 | 1.08 | 616,911.41 | 467,274.08 |
| 5,767.00 | 92.90 | 271.70 | -742.79 | 2,704.21 | 74.39 | -3,220.46 | 3,221.32 | 0.54 | 616,914.49 | 467,181.24 |
| 5,861.00 | 93.70 | 271.40 | -748.20 | 2,698.80 | 76.92 | -3,314.27 | 3,315.16 | 0.91 | 616,917.02 | 467,087.43 |
| 5,955.00 | 92.10 | 271.60 | -752.96 | 2,694.04 | 79.38 | -3,408.12 | 3,409.04 | 1.72 | 616,919.48 | 466,993.58 |
| 6,048.00 | 92.00 | 271.10 | -756.28 | 2,690.72 | 81.57 | -3,501.03 | 3,501.98 | 0.55 | 616,921.67 | 466,900.67 |
| 6,142.00 | 92.20 | 271.10 | -759.73 | 2,687.27 | 83.38 | -3,594.95 | 3,595.91 | 0.21 | 616,923.48 | 466,806.75 |
| 6,236.00 | 92.40 | 270.60 | -763.50 | 2,683.50 | 84.77 | -3,688.86 | 3,689.83 | 0.57 | 616,924.87 | 466,712.84 |
| 6,329.00 | 92.50 | 270.80 | -767.48 | 2,679.52 | 85.90 | -3,781.77 | 3,782.74 | 0.24 | 616,926.00 | 466,619.93 |
| 6,423.00 | 92.70 | 270.60 | -771.74 | 2,675.26 | 87.05 | -3,875.67 | 3,876.64 | 0:30 | 616,927.15 | 466,526.03 |
| 6,516.00 | 93.00 | 269.60 | -776.36 | 2,670.64 | 87.21 | -3,968.55 | 3,969.51 | 1.12 | 616,927.31 | 466,433.15 |
| 6,610.00 | 92.00 | 270.70 | -780.47 | 2,666.53 | 87.46 | -4,062.46 | 4,063.40 | 1.58 | 616,927.56 | 466,339.24 |
| 6,703.00 | 92.20 | 270.40 | -783.87 | 2,663.13 | 88.35 | -4,155.39 | 4,156.33 | 0.39 | 616,928.45 | 466,246.31 |
| 6,796.00 | 92.50 | 269.80 | -787.69 | 2,659.31 | 88.51 | -4,248.31 | 4,249.23 | 0.72 | 616,928.61 | 466,153.39 |
| 6,890.00 | 92.90 | 270.60 | -792.11 | 2,654.89 | 88.84 | -4,342.21 | 4,343.11 | 0.95 | 616,928.94 | 466,059.49 |
| 6,984.00 | 91.90 | 272.10 | -796.05 | 2,650.95 | 91.05 | -4,436.09 | 4,437.02 | 1.92 | 616,931.15 | 465,965.61 |
| 7,077.00 | 92.10 | 271.70 | -799.30 | 2,647.70 | 94.14 | -4,528.99 | 4,529.96 | 0.48 | 616,934.24 | 465,872.71 |
| 7 171 00 | 00 00 | 074 EO | 10 000 | 1644.00 | 06 76 | 00000 | 00000 | | | |

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COMPASS 5000.1 Build 56

Page 5

Survey Report

465,587.07 465,526.14 465,685.94 Easting (1) (nst)) 616,941.45 616,942.51 616,939.29 orthing (ust) RF @ 3447.00usft (JW/4) RF @ 3447.00usft (JW/4) GCRIDB v5000 0.51 0.32 Leg. 00usft) Vell #1H 4,815.70 4,716.80 (jish) 4,814.63 4,715.76 8 EN 101.35 99.19 (nsft) NSN 2,635.54 2,640.12 insft) -811.46 -806.88 (**usft**)) 271.00 271.50 Velibore #1/Job #1310195 Azi (a 92.70 92.60 Eddy County h Clydesdale 1 F llbore # 7,363.00 7,264.00 . (USD) rojeci Wellbo Design Well Site

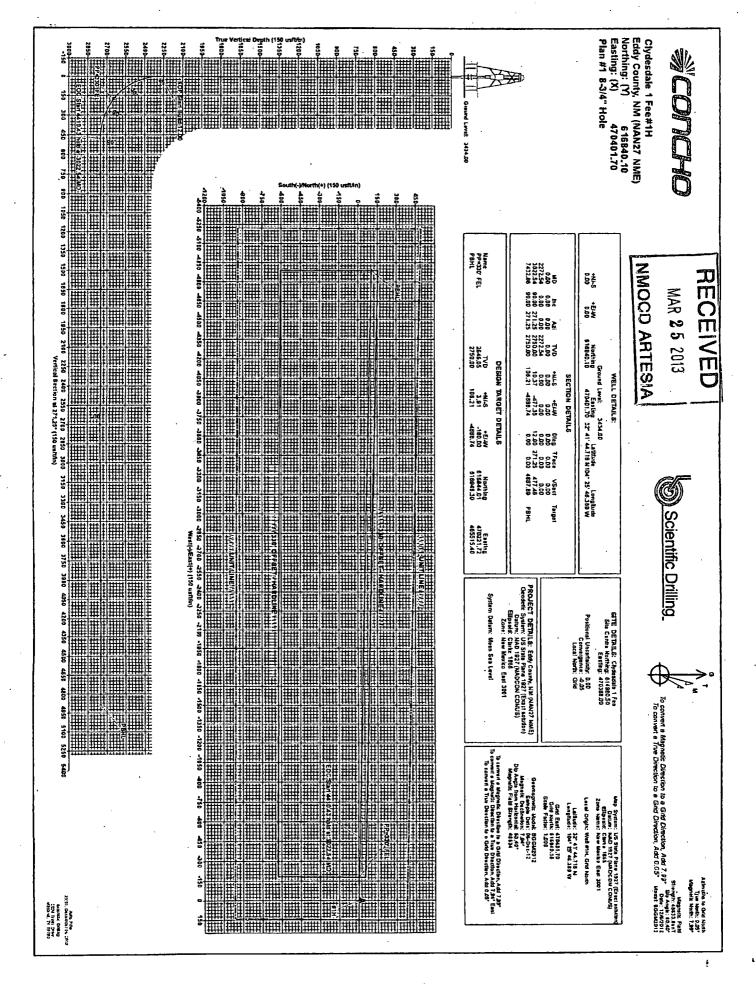
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COMPASS 5000.1 Build 56



LOCATION VERIFICATION MAP

