

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2014

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.  
Fee & Fed (NMSF-081332/081332-B)

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

NOV 06 2014

2. Name of Operator  
Anschutz Exploration Corporation

8. Well Name and No.  
Regina Com 25-2-14-15 #1H

9. API Well No.  
30-039-31203

3a. Address  
555 Seventeenth Street, Suite 2400, Denver, CO 80202

3b. Phone No. (include area code)  
(303) 298-1000

10. Field and Pool or Exploratory Area  
Gavilan Mancos

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SHL: Unit B, 1070' FNL & 2383' FEL, Section 14, T25N, R2W  
BHL: Unit D, 830' FNL & 330' FWL, Section 15, T25N, R2W

11. County or Parish, State  
Rio Arriba, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

| TYPE OF SUBMISSION                                   | TYPE OF ACTION                                   |                                           |                                                    |                                         |
|------------------------------------------------------|--------------------------------------------------|-------------------------------------------|----------------------------------------------------|-----------------------------------------|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize                 | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Alter Casing            | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice    | <input type="checkbox"/> Casing Repair           | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other          |
|                                                      | <input checked="" type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |                                         |
|                                                      | <input type="checkbox"/> Convert to Injection    | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |                                         |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

As a result of moving the surface loaction Anschutz Exploration Corporation is submitting a change in plans for the drilling and directional plan. Please see the attached GeoProg with Drilling Plan and Directional Plan.

OIL CONS. DIV DIST. 3

NOV 18 2014

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

ADHERE TO PREVIOUS NMOC  
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Randall W. Maxey

Title Permitting and Regulatory Manager

Signature

*R. W. Maxey*

Date 11/04/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

*William Tambekou*

Title Petroleum Engineer

Date 11/13/2014

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office FFO

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

NMOCDA

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Well Prognosis

GENERAL INFORMATION

|                           |                                 |                              |                           |           |       |
|---------------------------|---------------------------------|------------------------------|---------------------------|-----------|-------|
| Lease/Well Name & Number: |                                 | AFE No.                      |                           | Date      |       |
| Regina Com 25-2-14-15     |                                 |                              |                           | 11/3/2014 |       |
| Prospect Name: Regina     |                                 | APC Prospect Number          |                           |           |       |
|                           |                                 | API No. 30-039-31203-0000    |                           |           |       |
| Field:                    |                                 |                              |                           |           |       |
| Closest Town:             | Lindrieth                       |                              |                           |           |       |
| County:                   | Rio Arriba                      |                              |                           |           |       |
| State:                    | New Mexico                      |                              |                           |           |       |
|                           | Lat/Longs (NAD27)               | Legal                        | Sec.                      | Township  | Range |
| Surface Hole Location:    | Lat 36.40223<br>Long -107.01808 | 1070' FNL & 2383' FEL        | 14                        | T25N      | R2W   |
| Pilot Hole BH Location:   | N/A                             |                              |                           |           |       |
| Bottom Hole Location:     | Lat 36.40291<br>Long -107.04474 | 830' FNL & 330' FWL          | 15                        | T25N      | R2W   |
| Location Directions:      |                                 |                              |                           |           |       |
|                           |                                 |                              |                           |           |       |
| Elevation                 | GL Elevation<br>7,306.0'        | Ground Level to RKB<br>16.0' | RKB Elevation<br>7,322.0' |           |       |

GEOLOGICAL INFORMATION

| Proposed TD | Pilot Hole | TVD | Lateral Toe | Primary Objective            | Secondary Objective          |
|-------------|------------|-----|-------------|------------------------------|------------------------------|
|             | N/A        | TVD | 6,882'      | Ojito                        |                              |
|             | N/A        | MD  | 14,528'     | Type Production (oil or gas) | Type Production (oil or gas) |
|             |            |     |             | Oil                          | Oil                          |

| Anticipated Formation Tops        |           |               |          |                        |                       |
|-----------------------------------|-----------|---------------|----------|------------------------|-----------------------|
| Reference Elevation: 7,322.0' RKB |           |               |          |                        |                       |
| Formation Name                    | Lithology | Top (Sub-Sea) | Top (md) | Top (TVD)              | Comment               |
| Fruitland FM                      | Sandstone | 3,947'        | 3,375'   | 3,375'                 | From log data         |
| Picture Cliffs                    | Sandstone | 3,906'        | 3,416'   | 3,416'                 | From log data         |
| Lewis                             | Shale     | 3,800'        | 3,522'   | 3,522'                 | From log data         |
| Huerfano Bentonite                | Limestone | 3,446'        | 3,876'   | 3,876'                 | From log data         |
| Menefee                           | Sandstone | 2,146'        | 5,176'   | 5,176'                 | From log data         |
| Point Lookout                     | Shale     | 1,708'        | 5,614'   | 5,614'                 | From log data         |
| Mancos                            | Shale     | 1,502'        | 5,820'   | 5,820'                 | From log data         |
| Ojito                             | Sandstone | 480'          | 6,998'   | 6,842'                 | From log data         |
| Landing Point (in Ojito)          |           | 410'          | 7,321'   | 6,912'                 | LANDING POINT: Target |
| Directional Drilling Information  |           |               |          |                        |                       |
|                                   |           |               |          | Build Rate (deg/100')  | 8.6                   |
|                                   |           |               |          | Azimuth (deg)          | 270.6                 |
|                                   |           |               |          | Inc at Land Pnt        | 90.0                  |
|                                   |           |               |          | Landing Point TVD (ft) | 6,912                 |
|                                   |           |               |          | KOP (ft)               | 6,275                 |
|                                   |           |               |          | Landing Point MD (ft)  | 7,321                 |
|                                   |           |               |          | Lateral Length (ft)    | 7,207                 |
|                                   |           |               |          | Lateral Toe MD (ft)    | 14,528                |
|                                   |           |               |          | Lateral Toe TVD (ft)   | 6,882                 |

We will be landing approximately 50' west of desired target. This is preferable to putting in a negative section.

| Open Hole Logging Program                                            |                                              |                                            |          |
|----------------------------------------------------------------------|----------------------------------------------|--------------------------------------------|----------|
| Type Log Suite                                                       | Interval Top                                 | Interval Bottom                            | Comments |
| GR / Resistivity / Density-Neutron/PE/Microlog /Caliper/Sonic<br>MWD | Base of surface casing<br>Beginning of Curve | 50 Deg. in curve Below Top Morrow<br>To TD |          |
|                                                                      |                                              |                                            |          |

| Coring Program |           |            |                  |
|----------------|-----------|------------|------------------|
| Core No.       | Formation | Est. Depth | Core Length (ft) |
|                |           |            |                  |
|                |           |            |                  |

| Drill Stem Test Program |                      |                          |              |                  |                 |             |                |
|-------------------------|----------------------|--------------------------|--------------|------------------|-----------------|-------------|----------------|
| If Needed               | Estimated Depth (ft) | Estimated Pressure (psi) | Cushion (ft) | Test Times (min) |                 |             |                |
|                         |                      |                          |              | Initial Flow     | Initial Shut-In | Second Flow | Second Shut-In |
| None Planned            |                      |                          |              |                  |                 |             |                |

| Wellsite Geology   |                                                                                                              |             |           |
|--------------------|--------------------------------------------------------------------------------------------------------------|-------------|-----------|
| Service            | Description of Services                                                                                      | Start Depth | End Depth |
| Mudlogger          | Base of surface casing to TD: high-resolution gas chromatograph required, such as "Gas Wizard" or Pason tool | Bs.Sf.Csg   | TD        |
| Wellsite Geologist | Base of surface casing to TD                                                                                 | Bs.Sf.Csg   | TD        |

| Sample Collection |       |                 |                                               |
|-------------------|-------|-----------------|-----------------------------------------------|
| Depth Interval    |       | Foot per Sample | Special Instructions                          |
| Top               | Base  |                 |                                               |
| Base surf csg     | Ojito | 30 Foot samples | One complete set of cleaned and dried samples |
| Ojito             | TD    | 60 Foot samples |                                               |
|                   |       |                 |                                               |

| Offset Well Information |         |              |                  |                   |          |          |
|-------------------------|---------|--------------|------------------|-------------------|----------|----------|
| Well Name               | Well TD | Year Drilled | Latitude (NAD27) | Longitude (NAD27) | Vert/Hor | Comments |
| Banshee                 | 8,098'  | 1988         | 36.40025         | -107.04271        | V        |          |
| Badger Com 14           | 5,901'  | 2008         | 36.40337         | -107.01511        | V        |          |
|                         |         |              |                  |                   |          |          |

## ENGINEERING INFORMATION

| Mud Program            |                              |  |           |         |                      |          |
|------------------------|------------------------------|--|-----------|---------|----------------------|----------|
| Interval               | Mud Description              |  | Viscosity | MW      | pH                   | Wtr Loss |
| Conductor Hole         | Fresh water with gel sweeps  |  | 28-42     | 8.3-9.4 | 9.0-10               | NC       |
| Surface                | Fresh water mud system, LSND |  | 35-70     | 8.6-9.2 | 9.0-10.5             | <10      |
| Vertical Below Surface | OBM                          |  | 38-50     | 7.9-8.4 | ~ 2#/Bbl excess lime | <10      |
| Build Section          | OBM                          |  | 40-54     | 7.8-8.4 | ~ 2#/Bbl excess lime | <10      |
| Lateral                | OBM                          |  | 40-54     | 7.8-8.4 | ~ 2#/Bbl excess lime | <10      |

| Casing Program      |                  |                       |                    |   |         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------|------------------|-----------------------|--------------------|---|---------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hole Size (in)      | Casing Size (in) | Casing Weight & Grade | Setting Depth (ft) |   | Thread  | Notes        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 17 1/2              | 13 3/8           | 48# H40               | 0'                 | - | 270'    | STC          | Guide shoe, 1 joint shoe track, float collar, casing to surface.<br><br>One bowspring (bs) centralizer stop-locked on the first joint, then one bs centralizer every joint to surface. Approximately 4 bs centralizers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 12 1/4              | 9 5/8            | 36# J55               | 0'                 | - | 2,350'  | STC          | Guide shoe, 2 joint shoe track, float collar, casing to DV Tool, DV tool, casing to surface.<br><br>One bowspring (bs) centralizer stop-locked on the first joint. Then, one bs centralizer for the next two joints. Then, one bs centralizer every other joint to DV Tool. One bs centralizer on each joint immediately above and below DV tool and then one bs centralizer every other joint from the DV tool to surface. There will be two cement baskets stop'loc'd two joints below the DV tool. Approximately 45 bs centralizers.                                                                                                                                                                                                      |
| 12 1/4              | 9 5/8            | 40# J55               | 2,350'             | - | 3,826'  | STC          | DV tool set @ ~ 3181'. Tail only on 1st stage from shoe to DV Tool (3,181').<br><br>Estimated 2nd Stage Top of Tail @ 3023'. 2nd stage Lead to surface.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 8 3/4               | 7                | 23# N80               | 0'                 | - | 6,175'  | LTC          | LTC connections in the vertical hole. BTC connections in the curve.<br><br>Float shoe, 3-jnt shoe track, float collar, casing to DV tool, DV tool, casing to surface.<br><br>One rigid centralizer per joint from the float shoe to 150' above KOP. One bs centralizer every third joint from 150' above KOP to DV Tool. One BS centralizer on each joint immediately above and below the DV tool and then one bs centralizer every third joint from the DV tool to 200' above the surface shoe. One BS centralizer every 5th jnt from 200' above the surface shoe to surface. There will be two cement baskets stop'loc'd two joints below the DV tool. Approximately 27 rigid centralizers and approximately 36 BS centralizers to be ran. |
| 8 3/4               | 7                | 23# HCP110            | 6,175'             | - | 7,321'  | BTC          | DV tool set @ ~ 5593'. Estimated 1st Stage Top of Tail @ 6570'. 1st Stage Top of Lead @ DV Tool (5593').<br><br>Estimated 2nd Stage Top of Tail @ 5093'. 2nd Stage Top of Lead to surface.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 6 1/4               | 4 1/2            | 13.5# P110            | 6,589'             | - | 14,528' | CDC or GB-CD | Float shoe, 1 jnt, float collar, 2 jnts, baffle collar, casing to line hanger, liner hanger<br><br>Liner hanger set at ~ 27 degrees of inc (6,589').<br><br>No centralization on the first 3 jnts. Then, 1 rigid 4-1/2" by 5-7/8" aluminum centralizer every other joint up to the liner hanger. Approximately 87 rigid centralizers will be ran.                                                                                                                                                                                                                                                                                                                                                                                            |
| Inside of 7" casing | 4 1/2            | 13.5# P110            | 0'                 | - | 6,589'  | CDC or GB-CD | Tie-back string used for the frac. Will be pulled after the frac job.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| Cementing Program |              |                 |
|-------------------|--------------|-----------------|
| String            | Cement Depth | Time and Amount |

| Summary   | (ft)             | Type and Amount                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conductor | 0' - 270'        | 360 sx (75.0 Bbls) of 15.7 ppg Class "G" w/ 2% CaCl <sub>2</sub> , ¼ lbm Poly-E-Flake. Slurry Yield 1.17 cuft/sx. Water requirements - 5.0 gal/sx. Excess = 100%.                                                                                                                                                                                                                                       |
| Surface   | 3,181' - 3,826'  | 1st Stage Tail Slurry - 275 sxs (64.7 Bbls) of 13.5 ppg 50/50 Poz w/ ¼ #/sk Poly-E-Flake, 5 #/sk Kol-seal, 0.15% CFR-3. Slurry Yield - 1.32 cuft/sx. Water requirements - 5.41 gal/sx. Excess 60%.                                                                                                                                                                                                      |
|           | 0' - 3,181'      | 2nd Stage Lead Slurry - 945 sxs (326.5 Bbls) of 12.3 ppg Halliburton Light w/ ¼ #/sk Poly-E-Flake, 5#/sk Kol-seal. Slurry Yield - 1.94 cuft/sx. Water requirements - 10.04 gal/sx. Excess - 100%.<br>2nd Stage Tail Slurry - 75 sxs (17.6 Bbls) of 13.5 ppg 50/50 Poz w/ ¼ #/sk Poly-E-Flake, 5 #/sk Kol-seal, 0.15% CFR-3. Slurry Yield - 1.32 cuft/sx. Water requirements - 5.43 gal/sx. Excess 100%. |
| Build     | 5,593' - 7,321'  | 1st Stage Lead - 115 sxs (39.7 Bbls) of 12.4 ppg Halliburton Lite w/ ¼ #/sk Poly-E-Flake, 5#/sk Kol-seal, 0.1% HR-5. Slurry Yield - 1.94 cuft/sk. Water requirements - 9.68 gal/sx. Excess - 50%.<br>1st Stage Tail - 175 sxs (35.8 Bbls) of 15.8 ppg Class G w/ 0.2% Halad-9. Slurry Yield - 1.15 cuft/sk. Water requirements - 4.98 gal/sx. Excess - 50%.                                             |
|           | 0' - 5,593'      | 2nd Stage Lead - 480 sxs (165.9 Bbls) of 12.4 ppg Halliburton Lite w/ ¼ #/sk Poly-E-Flake, 5#/sk Kol-seal, 0.1% HR-5. Slurry Yield - 1.94 cuft/sk. Water requirements - 9.68 gal/sx. Excess - 50%.<br>2nd Stage Tail - 100 sxs (20.5 Bbls) of 15.8 ppg Class G w/ 0.2% Halad-9. Slurry Yield - 1.15 cuft/sk. Water requirements - 4.98 gal/sx. Excess - 50%.                                            |
| Lateral   | 6,589' - 14,528' | Tail Slurry (only) - 855 sx (198.0 Bbls) of 13.5 ppg 50/50 Poz w/ ¼ #/sk Poly-E-Flake, 5#/sk Kol-seal, 0.3% Halad-344, 0.15% CFR-3, 0.3% Super CBL. Slurry Yield - 1.3 cuft/sk. Water requirements 5.3 gal/sx. Excess - 35%.                                                                                                                                                                            |

| Cuttings Management                                                                     |                                        |                                                        |                |                |                 |
|-----------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------|----------------|-----------------|
| Approximate Cuttings Volume (cuft)                                                      | Approximate Drying Agent Volume (cuft) | Approximate Volume of Cuttings And Drying Agent (cuft) | Pit Depth (ft) | Pit Width (ft) | Pit Length (ft) |
| 8,179                                                                                   | 4,089                                  | 12,268                                                 | 9              | 15             | 190             |
| We will maintain 4' of free-board in trench. Location of cuttings pit to be determined. |                                        |                                                        |                |                |                 |

| Completion Program |
|--------------------|
|                    |

| Pressure and Pressure Control                                                                                                                                                                                                                                                                                         |       |                             |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------|-----|
| Anticipated BHP (psi)                                                                                                                                                                                                                                                                                                 | 2,981 | Max Anticipate BH Temp (°F) | 156 |
| AOC's BOPE to consist of a 11"x3K psi double ram and a 11"x3K psi annular. The two rams will consist of a Blind Rams and a Pipe Ram. The BOP will have a mud cross with a 3K psi check valve and a 3K psi manual valve on the Kill Line side and a 3K psi HCR valve and a 3K psi manual valve on the Choke Line side. |       |                             |     |
| The choke manifold will be a 3K psi manifold with redundant flow loops. On one flow loop, there will be a 3K psi Super (Hydraulic) Choke. On the other flow loop, there will be a 3K psi Manual Choke.                                                                                                                |       |                             |     |
| In the drillstring there will be a Top Drive IBOP. On the rig floor, there will be a full-opening safety valve (TIW) and a Gray Oil Tool Valve.                                                                                                                                                                       |       |                             |     |
| All BOPE will be tested at installation, at regular 21-day intervals and anytime that a component has had a break (been opened).                                                                                                                                                                                      |       |                             |     |
| With the exception of the Annular, all BOPE will be tested to 250 psi (low test) and 3,000 psi (high test). The Annular will be tested to 250 psi (low test) 2,000 psi (high test).                                                                                                                                   |       |                             |     |

| Other Notes |
|-------------|
|             |



Company: Anschutz Oil Company, LLC  
 Field: Rio Arriba, NM  
 Location: Sec.14 -T25N-R02W  
 Well: Regina Com 25-2-14-15  
 Borehole: Original Hole  
 Rig: TBD  
 Plan: Rev 1



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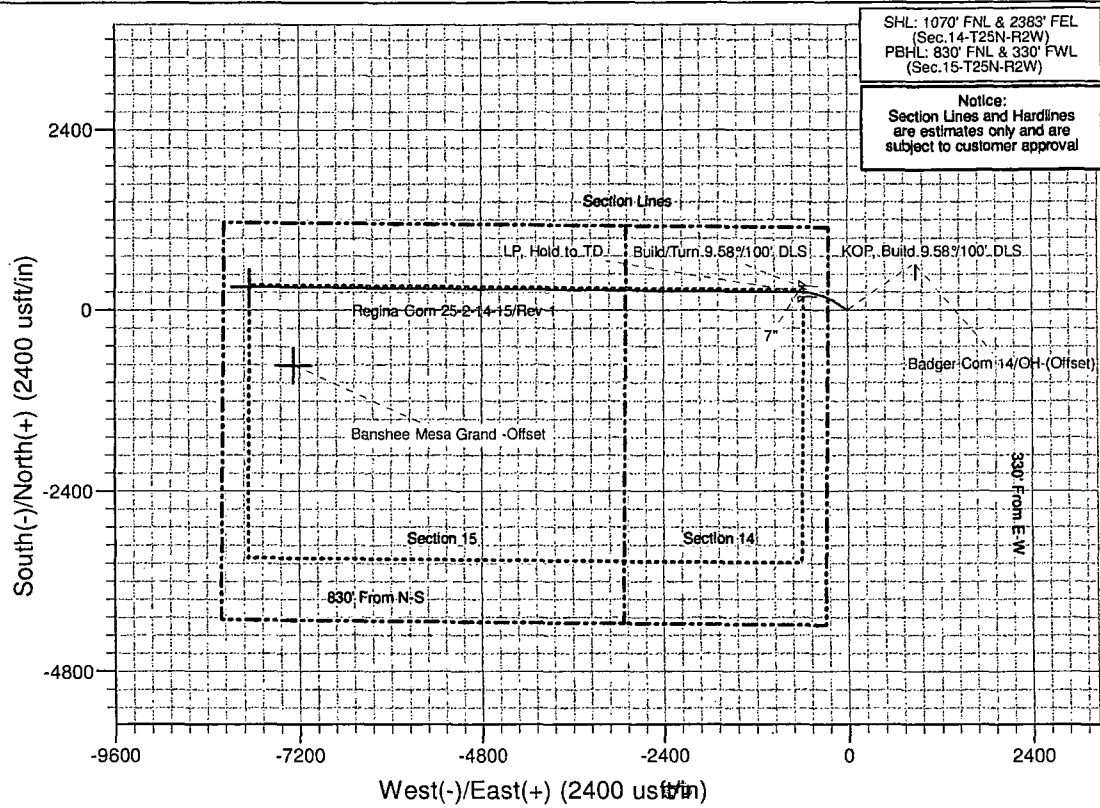
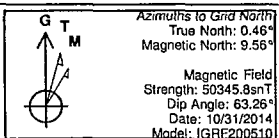
| SECTION DETAILS |          |       |        |         |        |          |      |        |         |                           |
|-----------------|----------|-------|--------|---------|--------|----------|------|--------|---------|---------------------------|
| Sec             | MD       | Inc   | Azi    | TVD     | +N-S   | +E-W     | Dleg | TFace  | VSect   | Annotation                |
| 1               | 0.00     | 0.00  | 0.00   | 0.00    | 0.00   | 0.00     | 0.00 | 0.00   | 0.00    |                           |
| 2               | 6275.38  | 0.00  | 0.00   | 6275.38 | 0.00   | 0.00     | 0.00 | 0.00   | 0.00    | KOP, Build 9.58°/100' DLS |
| 3               | 6796.50  | 49.98 | 303.66 | 6732.87 | 118.20 | -177.49  | 9.59 | 303.66 | 182.04  | Build/Turn 9.58°/100' DLS |
| 4               | 7320.83  | 90.24 | 270.56 | 6912.00 | 240.00 | -636.62  | 9.59 | -45.22 | 645.63  | LP, Hold to TD            |
| 5               | 14528.31 | 90.24 | 270.56 | 6882.00 | 311.04 | -7843.69 | 0.00 | 180.00 | 7849.86 | PBHL/TD                   |

| WELL DETAILS: Regina Com 25-2-14-15 |      |            |  |            |                           |            |  |  |  |  |
|-------------------------------------|------|------------|--|------------|---------------------------|------------|--|--|--|--|
|                                     |      |            |  | GL 7306.00 | KB 16 @ 7322.00usft (TBD) |            |  |  |  |  |
| +N-S                                | +E-W | Northing   |  | Easting    | Latitude                  | Longitude  |  |  |  |  |
| 0.00                                | 0.00 | 1966522.82 |  | 273967.24  | 36.40223                  | -107.01808 |  |  |  |  |

| WELLBORE TARGET DETAILS    |  |         |         |          |          |            |  |  |  |  |
|----------------------------|--|---------|---------|----------|----------|------------|--|--|--|--|
| Name                       |  | TVD     | +N-S    | +E-W     | Latitude | Longitude  |  |  |  |  |
| Banshee Mesa Grand -Offset |  | 0.00    | -730.00 | -7276.34 | 36.40006 | -107.04278 |  |  |  |  |
| PBHL-Regina Com 25-2-14-15 |  | 6882.00 | 311.04  | -7843.69 | 36.40291 | -107.04474 |  |  |  |  |
| LP-RC 25-2-14-15           |  | 6912.00 | 240.00  | -636.62  | 36.40288 | -107.02025 |  |  |  |  |

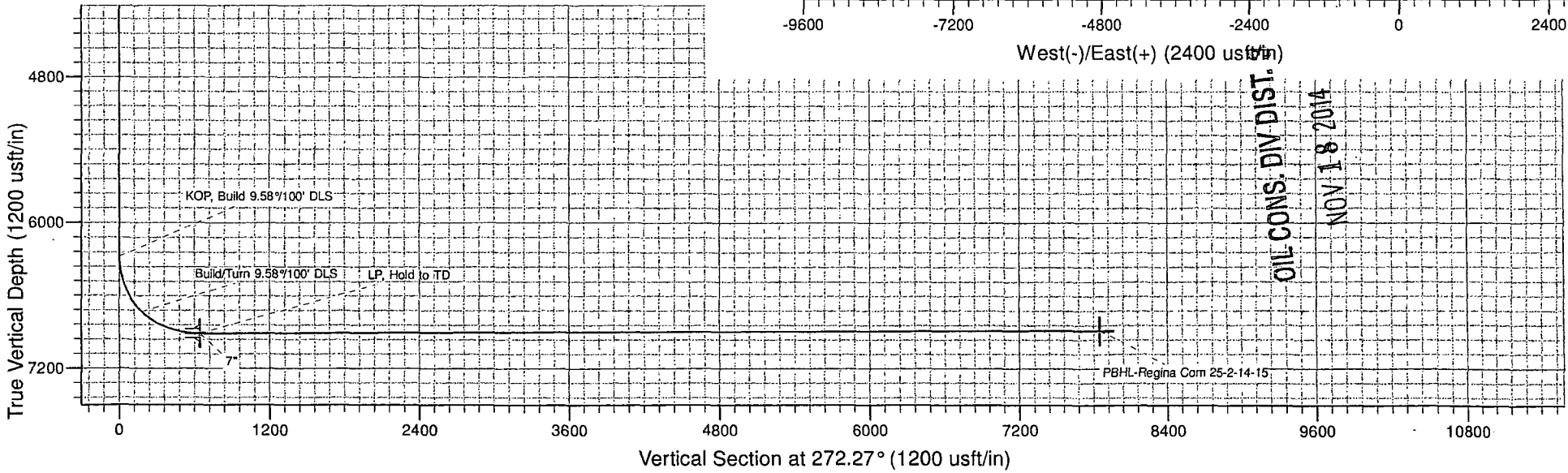
| CASING DETAILS |         |      |      |
|----------------|---------|------|------|
| TVD            | MD      | Name | Size |
| 6912.00        | 7320.83 | 7"   | 7    |

| FORMATION TOP DETAILS |         |                          |  |
|-----------------------|---------|--------------------------|--|
| TVDPath               | MDPath  | Formation                |  |
| 3375.00               | 3375.00 | Fruitland FM             |  |
| 3416.00               | 3416.00 | Picture Cliffs           |  |
| 3522.00               | 3522.00 | Lewis                    |  |
| 3876.00               | 3876.00 | Huerfano Bentonite       |  |
| 5176.00               | 5176.00 | Menefee                  |  |
| 5614.00               | 5614.00 | Point Lookout            |  |
| 5820.00               | 5820.00 | Mancos                   |  |
| 6842.00               | 6998.38 | Ojito                    |  |
| 6912.00               | 7320.47 | Landing Point (in Ojito) |  |



SHL: 1070' FNL & 2383' FEL  
 (Sec.14-T25N-R2W)  
 PBHL: 830' FNL & 330' FWL  
 (Sec.15-T25N-R2W)

Notice:  
 Section Lines and Hardlines  
 are estimates only and are  
 subject to customer approval



OIL CONS. DIV. DIST.  
 NOV 18 2014



A Schlumberger Company

## **Anschutz Oil Company, LLC**

Rio Arriba, NM

Sec.14 -T25N-R02W

Regina Com 25-2-14-15

Original Hole

Plan: Rev 1

## **Standard Planning Report**

03 November, 2014





A Schlumberger Company

# Schlumberger Planning Report



|           |                           |                              |                            |
|-----------|---------------------------|------------------------------|----------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Regina Com 25-2-14-15 |
| Company:  | Anschutz Oil Company, LLC | TVD Reference:               | KB 16 @ 7322.00usft (TBD)  |
| Project:  | Rio Arriba, NM            | MD Reference:                | KB 16 @ 7322.00usft (TBD)  |
| Site:     | Sec.14 -T25N-R02W         | North Reference:             | Grid                       |
| Well:     | Regina Com 25-2-14-15     | Survey Calculation Method:   | Minimum Curvature          |
| Wellbore: | Original Hole             |                              |                            |
| Design:   | Rev 1                     |                              |                            |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project     | Rio Arriba, NM                       |               |                |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |                |
| Map Zone:   | New Mexico Central 3002              |               |                |

|                       |                   |                   |                   |
|-----------------------|-------------------|-------------------|-------------------|
| Site                  | Sec.14 -T25N-R02W |                   |                   |
| Site Position:        |                   | Northing:         | 1,966,522.82 usft |
| From:                 | Lat/Long          | Easting:          | 273,967.24 usft   |
| Position Uncertainty: | 0.00 usft         | Slot Radius:      | 13-3/16 "         |
|                       |                   | Grid Convergence: | -0.46 °           |

|                      |                       |                     |                       |
|----------------------|-----------------------|---------------------|-----------------------|
| Well                 | Regina Com 25-2-14-15 |                     |                       |
| Well Position        | +N-S                  | 0.00 usft           | Latitude: 36.40223    |
|                      | +E-W                  | 0.00 usft           | Longitude: -107.01808 |
| Position Uncertainty | 0.00 usft             | Wellhead Elevation: | 0.00 usft             |
|                      |                       | Ground Level:       | 7,306.00 usft         |

|           |               |             |                |
|-----------|---------------|-------------|----------------|
| Wellbore  | Original Hole |             |                |
| Magnetics | Model Name    | Sample Date | Declination    |
|           | IGRF200510    | 10/31/2014  | 9.10           |
|           |               |             | Dip Angle      |
|           |               |             | 63.26          |
|           |               |             | Field Strength |
|           |               |             | 50,346         |

|                   |                  |           |                    |
|-------------------|------------------|-----------|--------------------|
| Design            | Rev 1            |           |                    |
| Audit Notes:      |                  |           |                    |
| Version:          | Phase:           | PROTOTYPE | Tie On Depth: 0.00 |
| Vertical Section: | Depth From (TVD) | +N-S      | +E-W               |
|                   | (usft)           | (usft)    | (usft)             |
|                   | 0.00             | 0.00      | 0.00               |
|                   |                  |           | Direction          |
|                   |                  |           | 272.27             |

| Plan Sections         |                 |             |                       |             |             |                       |                      |                     |         |                            |
|-----------------------|-----------------|-------------|-----------------------|-------------|-------------|-----------------------|----------------------|---------------------|---------|----------------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N-S (usft) | +E-W (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target                     |
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00        | 0.00        | 0.00                  | 0.00                 | 0.00                | 0.00    |                            |
| 6,275.38              | 0.00            | 0.00        | 6,275.38              | 0.00        | 0.00        | 0.00                  | 0.00                 | 0.00                | 0.00    |                            |
| 6,796.50              | 49.98           | 303.66      | 6,732.87              | 118.20      | -177.49     | 9.59                  | 9.59                 | 0.00                | 303.66  |                            |
| 7,320.83              | 90.24           | 270.56      | 6,912.00              | 240.00      | -636.62     | 9.59                  | 7.68                 | -6.31               | -45.22  | LP-RC 25-2-14-15           |
| 14,528.31             | 90.24           | 270.56      | 6,882.00              | 311.04      | -7,843.69   | 0.00                  | 0.00                 | 0.00                | 180.00  | PBHL-Regina Com 25-2-14-15 |



A Schlumberger Company

# Schlumberger Planning Report



|           |                           |                              |                            |
|-----------|---------------------------|------------------------------|----------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Regina Com 25-2-14-15 |
| Company:  | Anschutz Oil Company, LLC | TVD Reference:               | KB 16 @ 7322.00usft (TBD)  |
| Project:  | Rio Arriba, NM            | MD Reference:                | KB 16 @ 7322.00usft (TBD)  |
| Site:     | Sec. 14 - T25N-R02W       | North Reference:             | Grid                       |
| Well:     | Regina Com 25-2-14-15     | Survey Calculation Method:   | Minimum Curvature          |
| Wellbore: | Original Hole             |                              |                            |
| Design:   | Rev 1                     |                              |                            |

| Planned Survey              |                    |                |                             |                 |                 |                               |                             |                            |                           |  |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-----------------------------|----------------------------|---------------------------|--|
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) |  |
| 0.00                        | 0.00               | 0.00           | 0.00                        | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 100.00                      | 0.00               | 0.00           | 100.00                      | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 200.00                      | 0.00               | 0.00           | 200.00                      | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 300.00                      | 0.00               | 0.00           | 300.00                      | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 400.00                      | 0.00               | 0.00           | 400.00                      | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 500.00                      | 0.00               | 0.00           | 500.00                      | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 600.00                      | 0.00               | 0.00           | 600.00                      | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 700.00                      | 0.00               | 0.00           | 700.00                      | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 800.00                      | 0.00               | 0.00           | 800.00                      | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 900.00                      | 0.00               | 0.00           | 900.00                      | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 1,000.00                    | 0.00               | 0.00           | 1,000.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 1,100.00                    | 0.00               | 0.00           | 1,100.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 1,200.00                    | 0.00               | 0.00           | 1,200.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 1,300.00                    | 0.00               | 0.00           | 1,300.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 1,400.00                    | 0.00               | 0.00           | 1,400.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 1,500.00                    | 0.00               | 0.00           | 1,500.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 1,600.00                    | 0.00               | 0.00           | 1,600.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 1,700.00                    | 0.00               | 0.00           | 1,700.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 1,800.00                    | 0.00               | 0.00           | 1,800.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 1,900.00                    | 0.00               | 0.00           | 1,900.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 2,000.00                    | 0.00               | 0.00           | 2,000.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 2,100.00                    | 0.00               | 0.00           | 2,100.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 2,200.00                    | 0.00               | 0.00           | 2,200.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 2,300.00                    | 0.00               | 0.00           | 2,300.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 2,400.00                    | 0.00               | 0.00           | 2,400.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 2,500.00                    | 0.00               | 0.00           | 2,500.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 2,600.00                    | 0.00               | 0.00           | 2,600.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 2,700.00                    | 0.00               | 0.00           | 2,700.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 2,800.00                    | 0.00               | 0.00           | 2,800.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 2,900.00                    | 0.00               | 0.00           | 2,900.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 3,000.00                    | 0.00               | 0.00           | 3,000.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 3,100.00                    | 0.00               | 0.00           | 3,100.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 3,200.00                    | 0.00               | 0.00           | 3,200.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 3,300.00                    | 0.00               | 0.00           | 3,300.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 3,375.00                    | 0.00               | 0.00           | 3,375.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| Fruitland FM                |                    |                |                             |                 |                 |                               |                             |                            |                           |  |
| 3,400.00                    | 0.00               | 0.00           | 3,400.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 3,416.00                    | 0.00               | 0.00           | 3,416.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| Picture Cliffs              |                    |                |                             |                 |                 |                               |                             |                            |                           |  |
| 3,500.00                    | 0.00               | 0.00           | 3,500.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 3,522.00                    | 0.00               | 0.00           | 3,522.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| Lewis                       |                    |                |                             |                 |                 |                               |                             |                            |                           |  |
| 3,600.00                    | 0.00               | 0.00           | 3,600.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 3,700.00                    | 0.00               | 0.00           | 3,700.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 3,800.00                    | 0.00               | 0.00           | 3,800.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 3,876.00                    | 0.00               | 0.00           | 3,876.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| Huerfano Bentonite          |                    |                |                             |                 |                 |                               |                             |                            |                           |  |
| 3,900.00                    | 0.00               | 0.00           | 3,900.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 4,000.00                    | 0.00               | 0.00           | 4,000.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 4,100.00                    | 0.00               | 0.00           | 4,100.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 4,200.00                    | 0.00               | 0.00           | 4,200.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 4,300.00                    | 0.00               | 0.00           | 4,300.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 4,400.00                    | 0.00               | 0.00           | 4,400.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |
| 4,500.00                    | 0.00               | 0.00           | 4,500.00                    | 0.00            | 0.00            | 0.00                          | 0.00                        | 0.00                       | 0.00                      |  |

|           |                           |                              |                            |
|-----------|---------------------------|------------------------------|----------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Regina Com 25-2-14-15 |
| Company:  | Anschutz Oil Company, LLC | TVD Reference:               | KB 16 @ 7322.00usft (TBD)  |
| Project:  | Rio Arriba, NM            | MD Reference:                | KB 16 @ 7322.00usft (TBD)  |
| Site:     | Sec. 14 - T25N-R02W       | North Reference:             | Grid                       |
| Well:     | Regina Com 25-2-14-15     | Survey Calculation Method:   | Minimum Curvature          |
| Wellbore: | Original Hole             |                              |                            |
| Design:   | Rev.1                     |                              |                            |

| Planned Survey                                |                 |             |                       |             |             |                         |                       |                      |                     |
|-----------------------------------------------|-----------------|-------------|-----------------------|-------------|-------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft)                         | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N-S (usft) | +E-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 4,600.00                                      | 0.00            | 0.00        | 4,600.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 4,700.00                                      | 0.00            | 0.00        | 4,700.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 4,800.00                                      | 0.00            | 0.00        | 4,800.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 4,900.00                                      | 0.00            | 0.00        | 4,900.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 5,000.00                                      | 0.00            | 0.00        | 5,000.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 5,100.00                                      | 0.00            | 0.00        | 5,100.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 5,176.00                                      | 0.00            | 0.00        | 5,176.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| <b>Menefee</b>                                |                 |             |                       |             |             |                         |                       |                      |                     |
| 5,200.00                                      | 0.00            | 0.00        | 5,200.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 5,300.00                                      | 0.00            | 0.00        | 5,300.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 5,400.00                                      | 0.00            | 0.00        | 5,400.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 5,500.00                                      | 0.00            | 0.00        | 5,500.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 5,600.00                                      | 0.00            | 0.00        | 5,600.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 5,614.00                                      | 0.00            | 0.00        | 5,614.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| <b>Point Lookout</b>                          |                 |             |                       |             |             |                         |                       |                      |                     |
| 5,700.00                                      | 0.00            | 0.00        | 5,700.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 5,800.00                                      | 0.00            | 0.00        | 5,800.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 5,820.00                                      | 0.00            | 0.00        | 5,820.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| <b>Mancos</b>                                 |                 |             |                       |             |             |                         |                       |                      |                     |
| 5,900.00                                      | 0.00            | 0.00        | 5,900.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 6,000.00                                      | 0.00            | 0.00        | 6,000.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 6,100.00                                      | 0.00            | 0.00        | 6,100.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 6,200.00                                      | 0.00            | 0.00        | 6,200.00              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 6,275.38                                      | 0.00            | 0.00        | 6,275.38              | 0.00        | 0.00        | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| <b>KOP, Build 9.58°/100' DLS</b>              |                 |             |                       |             |             |                         |                       |                      |                     |
| 6,300.00                                      | 2.36            | 303.66      | 6,299.99              | 0.28        | -0.42       | 0.43                    | 9.59                  | 9.59                 | 0.00                |
| 6,400.00                                      | 11.95           | 303.66      | 6,399.10              | 7.18        | -10.78      | 11.06                   | 9.59                  | 9.59                 | 0.00                |
| 6,500.00                                      | 21.54           | 303.66      | 6,494.74              | 23.13       | -34.74      | 35.63                   | 9.59                  | 9.59                 | 0.00                |
| 6,600.00                                      | 31.14           | 303.66      | 6,584.26              | 47.70       | -71.62      | 73.46                   | 9.59                  | 9.59                 | 0.00                |
| 6,700.00                                      | 40.73           | 303.66      | 6,665.13              | 80.19       | -120.41     | 123.49                  | 9.59                  | 9.59                 | 0.00                |
| 6,796.50                                      | 49.98           | 303.66      | 6,732.87              | 118.20      | -177.49     | 182.04                  | 9.59                  | 9.59                 | 0.00                |
| <b>Build/Turn 9.58°/100' DLS</b>              |                 |             |                       |             |             |                         |                       |                      |                     |
| 6,800.00                                      | 50.22           | 303.35      | 6,735.12              | 119.69      | -179.73     | 184.33                  | 9.59                  | 6.77                 | -8.86               |
| 6,900.00                                      | 57.29           | 295.30      | 6,794.27              | 158.88      | -250.03     | 256.13                  | 9.59                  | 7.07                 | -8.05               |
| 6,998.38                                      | 64.67           | 288.57      | 6,842.00              | 190.80      | -329.78     | 337.08                  | 9.59                  | 7.50                 | -6.84               |
| <b>Ojito</b>                                  |                 |             |                       |             |             |                         |                       |                      |                     |
| 7,000.00                                      | 64.80           | 288.47      | 6,842.69              | 191.27      | -331.16     | 338.48                  | 9.59                  | 7.67                 | -6.38               |
| 7,100.00                                      | 72.58           | 282.44      | 6,879.03              | 215.94      | -420.87     | 429.10                  | 9.59                  | 7.78                 | -6.02               |
| 7,200.00                                      | 80.53           | 276.92      | 6,902.28              | 232.20      | -516.64     | 525.44                  | 9.59                  | 7.95                 | -5.52               |
| 7,300.00                                      | 88.56           | 271.65      | 6,911.78              | 239.60      | -615.80     | 624.81                  | 9.59                  | 8.03                 | -5.27               |
| 7,320.47                                      | 90.24           | 270.56      | 6,912.00              | 240.00      | -636.26     | 645.27                  | 9.76                  | 8.19                 | -5.31               |
| <b>Landing Point (in Ojito)</b>               |                 |             |                       |             |             |                         |                       |                      |                     |
| 7,320.83                                      | 90.24           | 270.56      | 6,912.00              | 240.00      | -636.62     | 645.63                  | 0.00                  | 0.00                 | 0.00                |
| <b>LP, Hold to TD - 7" - LP-RC 25-2-14-15</b> |                 |             |                       |             |             |                         |                       |                      |                     |
| 7,400.00                                      | 90.24           | 270.56      | 6,911.67              | 240.78      | -715.79     | 724.76                  | 0.00                  | 0.00                 | 0.00                |
| 7,500.00                                      | 90.24           | 270.56      | 6,911.25              | 241.77      | -815.78     | 824.72                  | 0.00                  | 0.00                 | 0.00                |
| 7,600.00                                      | 90.24           | 270.56      | 6,910.83              | 242.75      | -915.77     | 924.67                  | 0.00                  | 0.00                 | 0.00                |
| 7,700.00                                      | 90.24           | 270.56      | 6,910.41              | 243.74      | -1,015.77   | 1,024.63                | 0.00                  | 0.00                 | 0.00                |
| 7,800.00                                      | 90.24           | 270.56      | 6,909.99              | 244.72      | -1,115.76   | 1,124.58                | 0.00                  | 0.00                 | 0.00                |
| 7,900.00                                      | 90.24           | 270.56      | 6,909.57              | 245.71      | -1,215.76   | 1,224.54                | 0.00                  | 0.00                 | 0.00                |
| 8,000.00                                      | 90.24           | 270.56      | 6,909.16              | 246.69      | -1,315.75   | 1,324.49                | 0.00                  | 0.00                 | 0.00                |
| 8,100.00                                      | 90.24           | 270.56      | 6,908.74              | 247.68      | -1,415.74   | 1,424.45                | 0.00                  | 0.00                 | 0.00                |
| 8,200.00                                      | 90.24           | 270.56      | 6,908.32              | 248.67      | -1,515.74   | 1,524.40                | 0.00                  | 0.00                 | 0.00                |



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# Schlumberger Planning Report



|           |                           |                              |                            |
|-----------|---------------------------|------------------------------|----------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Regina Com 25-2-14-15 |
| Company:  | Anschutz Oil Company, LLC | TVD Reference:               | KB 16 @ 7322.00usft (TBD)  |
| Project:  | Rio Arriba, NM            | MD Reference:                | KB 16 @ 7322.00usft (TBD)  |
| Site:     | Sec 14 - T25N-R02W        | North Reference:             | Grid:                      |
| Well:     | Regina Com 25-2-14-15     | Survey Calculation Method:   | Minimum Curvature          |
| Wellbore: | Original Hole             |                              |                            |
| Design:   | Rev 1                     |                              |                            |

| Planned Survey        |                 |             |                       |              |              |                         |                       |                      |                     |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | -E/+W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |  |
| 8,300.00              | 90.24           | 270.56      | 6,907.90              | 249.65       | -1,615.73    | 1,624.36                | 0.00                  | 0.00                 | 0.00                |  |
| 8,400.00              | 90.24           | 270.56      | 6,907.48              | 250.64       | -1,715.73    | 1,724.31                | 0.00                  | 0.00                 | 0.00                |  |
| 8,500.00              | 90.24           | 270.56      | 6,907.06              | 251.62       | -1,815.72    | 1,824.27                | 0.00                  | 0.00                 | 0.00                |  |
| 8,600.00              | 90.24           | 270.56      | 6,906.65              | 252.61       | -1,915.72    | 1,924.22                | 0.00                  | 0.00                 | 0.00                |  |
| 8,700.00              | 90.24           | 270.56      | 6,906.23              | 253.59       | -2,015.71    | 2,024.18                | 0.00                  | 0.00                 | 0.00                |  |
| 8,800.00              | 90.24           | 270.56      | 6,905.81              | 254.58       | -2,115.70    | 2,124.13                | 0.00                  | 0.00                 | 0.00                |  |
| 8,900.00              | 90.24           | 270.56      | 6,905.39              | 255.57       | -2,215.70    | 2,224.09                | 0.00                  | 0.00                 | 0.00                |  |
| 9,000.00              | 90.24           | 270.56      | 6,904.98              | 256.55       | -2,315.69    | 2,324.04                | 0.00                  | 0.00                 | 0.00                |  |
| 9,100.00              | 90.24           | 270.56      | 6,904.56              | 257.54       | -2,415.69    | 2,424.00                | 0.00                  | 0.00                 | 0.00                |  |
| 9,200.00              | 90.24           | 270.56      | 6,904.14              | 258.52       | -2,515.68    | 2,523.95                | 0.00                  | 0.00                 | 0.00                |  |
| 9,300.00              | 90.24           | 270.56      | 6,903.72              | 259.51       | -2,615.68    | 2,623.90                | 0.00                  | 0.00                 | 0.00                |  |
| 9,400.00              | 90.24           | 270.56      | 6,903.31              | 260.49       | -2,715.67    | 2,723.86                | 0.00                  | 0.00                 | 0.00                |  |
| 9,500.00              | 90.24           | 270.56      | 6,902.89              | 261.48       | -2,815.66    | 2,823.81                | 0.00                  | 0.00                 | 0.00                |  |
| 9,600.00              | 90.24           | 270.56      | 6,902.47              | 262.47       | -2,915.66    | 2,923.77                | 0.00                  | 0.00                 | 0.00                |  |
| 9,700.00              | 90.24           | 270.56      | 6,902.05              | 263.45       | -3,015.65    | 3,023.72                | 0.00                  | 0.00                 | 0.00                |  |
| 9,800.00              | 90.24           | 270.56      | 6,901.64              | 264.44       | -3,115.65    | 3,123.68                | 0.00                  | 0.00                 | 0.00                |  |
| 9,900.00              | 90.24           | 270.56      | 6,901.22              | 265.42       | -3,215.64    | 3,223.63                | 0.00                  | 0.00                 | 0.00                |  |
| 10,000.00             | 90.24           | 270.56      | 6,900.80              | 266.41       | -3,315.64    | 3,323.59                | 0.00                  | 0.00                 | 0.00                |  |
| 10,100.00             | 90.24           | 270.56      | 6,900.39              | 267.39       | -3,415.63    | 3,423.54                | 0.00                  | 0.00                 | 0.00                |  |
| 10,200.00             | 90.24           | 270.56      | 6,899.97              | 268.38       | -3,515.62    | 3,523.50                | 0.00                  | 0.00                 | 0.00                |  |
| 10,300.00             | 90.24           | 270.56      | 6,899.55              | 269.37       | -3,615.62    | 3,623.45                | 0.00                  | 0.00                 | 0.00                |  |
| 10,400.00             | 90.24           | 270.56      | 6,899.14              | 270.35       | -3,715.61    | 3,723.41                | 0.00                  | 0.00                 | 0.00                |  |
| 10,500.00             | 90.24           | 270.56      | 6,898.72              | 271.34       | -3,815.61    | 3,823.36                | 0.00                  | 0.00                 | 0.00                |  |
| 10,600.00             | 90.24           | 270.56      | 6,898.30              | 272.32       | -3,915.60    | 3,923.32                | 0.00                  | 0.00                 | 0.00                |  |
| 10,700.00             | 90.24           | 270.56      | 6,897.89              | 273.31       | -4,015.60    | 4,023.27                | 0.00                  | 0.00                 | 0.00                |  |
| 10,800.00             | 90.24           | 270.56      | 6,897.47              | 274.29       | -4,115.59    | 4,123.23                | 0.00                  | 0.00                 | 0.00                |  |
| 10,900.00             | 90.24           | 270.56      | 6,897.05              | 275.28       | -4,215.58    | 4,223.18                | 0.00                  | 0.00                 | 0.00                |  |
| 11,000.00             | 90.24           | 270.56      | 6,896.64              | 276.26       | -4,315.58    | 4,323.14                | 0.00                  | 0.00                 | 0.00                |  |
| 11,100.00             | 90.24           | 270.56      | 6,896.22              | 277.25       | -4,415.57    | 4,423.09                | 0.00                  | 0.00                 | 0.00                |  |
| 11,200.00             | 90.24           | 270.56      | 6,895.81              | 278.24       | -4,515.57    | 4,523.05                | 0.00                  | 0.00                 | 0.00                |  |
| 11,300.00             | 90.24           | 270.56      | 6,895.39              | 279.22       | -4,615.56    | 4,623.00                | 0.00                  | 0.00                 | 0.00                |  |
| 11,400.00             | 90.24           | 270.56      | 6,894.97              | 280.21       | -4,715.56    | 4,722.96                | 0.00                  | 0.00                 | 0.00                |  |
| 11,500.00             | 90.24           | 270.56      | 6,894.56              | 281.19       | -4,815.55    | 4,822.91                | 0.00                  | 0.00                 | 0.00                |  |
| 11,600.00             | 90.24           | 270.56      | 6,894.14              | 282.18       | -4,915.54    | 4,922.87                | 0.00                  | 0.00                 | 0.00                |  |
| 11,700.00             | 90.24           | 270.56      | 6,893.73              | 283.16       | -5,015.54    | 5,022.82                | 0.00                  | 0.00                 | 0.00                |  |
| 11,800.00             | 90.24           | 270.56      | 6,893.31              | 284.15       | -5,115.53    | 5,122.77                | 0.00                  | 0.00                 | 0.00                |  |
| 11,900.00             | 90.24           | 270.56      | 6,892.90              | 285.14       | -5,215.53    | 5,222.73                | 0.00                  | 0.00                 | 0.00                |  |
| 12,000.00             | 90.24           | 270.56      | 6,892.48              | 286.12       | -5,315.52    | 5,322.68                | 0.00                  | 0.00                 | 0.00                |  |
| 12,100.00             | 90.24           | 270.56      | 6,892.06              | 287.11       | -5,415.52    | 5,422.64                | 0.00                  | 0.00                 | 0.00                |  |
| 12,200.00             | 90.24           | 270.56      | 6,891.65              | 288.09       | -5,515.51    | 5,522.59                | 0.00                  | 0.00                 | 0.00                |  |
| 12,300.00             | 90.24           | 270.56      | 6,891.23              | 289.08       | -5,615.50    | 5,622.55                | 0.00                  | 0.00                 | 0.00                |  |
| 12,400.00             | 90.24           | 270.56      | 6,890.82              | 290.06       | -5,715.50    | 5,722.50                | 0.00                  | 0.00                 | 0.00                |  |
| 12,500.00             | 90.24           | 270.56      | 6,890.40              | 291.05       | -5,815.49    | 5,822.46                | 0.00                  | 0.00                 | 0.00                |  |
| 12,600.00             | 90.24           | 270.56      | 6,889.99              | 292.04       | -5,915.49    | 5,922.41                | 0.00                  | 0.00                 | 0.00                |  |
| 12,700.00             | 90.24           | 270.56      | 6,889.57              | 293.02       | -6,015.48    | 6,022.37                | 0.00                  | 0.00                 | 0.00                |  |
| 12,800.00             | 90.24           | 270.56      | 6,889.16              | 294.01       | -6,115.48    | 6,122.32                | 0.00                  | 0.00                 | 0.00                |  |
| 12,900.00             | 90.24           | 270.56      | 6,888.74              | 294.99       | -6,215.47    | 6,222.28                | 0.00                  | 0.00                 | 0.00                |  |
| 13,000.00             | 90.24           | 270.56      | 6,888.33              | 295.98       | -6,315.46    | 6,322.23                | 0.00                  | 0.00                 | 0.00                |  |
| 13,100.00             | 90.24           | 270.56      | 6,887.91              | 296.96       | -6,415.46    | 6,422.19                | 0.00                  | 0.00                 | 0.00                |  |
| 13,200.00             | 90.24           | 270.56      | 6,887.50              | 297.95       | -6,515.45    | 6,522.14                | 0.00                  | 0.00                 | 0.00                |  |
| 13,300.00             | 90.24           | 270.56      | 6,887.09              | 298.94       | -6,615.45    | 6,622.10                | 0.00                  | 0.00                 | 0.00                |  |
| 13,400.00             | 90.24           | 270.56      | 6,886.67              | 299.92       | -6,715.44    | 6,722.05                | 0.00                  | 0.00                 | 0.00                |  |
| 13,500.00             | 90.24           | 270.56      | 6,886.26              | 300.91       | -6,815.44    | 6,822.01                | 0.00                  | 0.00                 | 0.00                |  |
| 13,600.00             | 90.24           | 270.56      | 6,885.84              | 301.89       | -6,915.43    | 6,921.96                | 0.00                  | 0.00                 | 0.00                |  |

|                  |                           |                                     |                            |
|------------------|---------------------------|-------------------------------------|----------------------------|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well Regina Com 25-2-14-15 |
| <b>Company:</b>  | Anschutz Oil Company, LLC | <b>TVD Reference:</b>               | KB 16 @ 7322.00usft (TBD)  |
| <b>Project:</b>  | Rio Arriba, NM            | <b>MD Reference:</b>                | KB 16 @ 7322.00usft (TBD)  |
| <b>Site:</b>     | Sec.14 - T25N-R02W        | <b>North Reference:</b>             | Grid                       |
| <b>Well:</b>     | Regina Com 25-2-14-15     | <b>Survey Calculation Method:</b>   | Minimum Curvature          |
| <b>Wellbore:</b> | Original Hole             |                                     |                            |
| <b>Design:</b>   | Rev 1                     |                                     |                            |

| Planned Survey                              |                 |             |                       |              |              |                         |                       |                      |                     |
|---------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft)                       | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 13,700.00                                   | 90.24           | 270.56      | 6,885.43              | 302.88       | -7,015.42    | 7,021.92                | 0.00                  | 0.00                 | 0.00                |
| 13,800.00                                   | 90.24           | 270.56      | 6,885.01              | 303.86       | -7,115.42    | 7,121.87                | 0.00                  | 0.00                 | 0.00                |
| 13,900.00                                   | 90.24           | 270.56      | 6,884.60              | 304.85       | -7,215.41    | 7,221.83                | 0.00                  | 0.00                 | 0.00                |
| 13,979.22                                   | 90.24           | 270.56      | 6,884.27              | 305.63       | -7,294.63    | 7,301.01                | 0.00                  | 0.00                 | 0.00                |
| <b>Banshee Mesa Grand Offset</b>            |                 |             |                       |              |              |                         |                       |                      |                     |
| 14,000.00                                   | 90.24           | 270.56      | 6,884.19              | 305.84       | -7,315.41    | 7,321.78                | 0.00                  | 0.00                 | 0.00                |
| 14,100.00                                   | 90.24           | 270.56      | 6,883.77              | 306.82       | -7,415.40    | 7,421.74                | 0.00                  | 0.00                 | 0.00                |
| 14,200.00                                   | 90.24           | 270.56      | 6,883.36              | 307.81       | -7,515.40    | 7,521.69                | 0.00                  | 0.00                 | 0.00                |
| 14,300.00                                   | 90.24           | 270.56      | 6,882.94              | 308.79       | -7,615.39    | 7,621.65                | 0.00                  | 0.00                 | 0.00                |
| 14,400.00                                   | 90.24           | 270.56      | 6,882.53              | 309.78       | -7,715.38    | 7,721.60                | 0.00                  | 0.00                 | 0.00                |
| 14,500.00                                   | 90.24           | 270.56      | 6,882.12              | 310.76       | -7,815.38    | 7,821.55                | 0.00                  | 0.00                 | 0.00                |
| 14,528.31                                   | 90.24           | 270.56      | 6,882.00              | 311.04       | -7,843.69    | 7,849.85                | 0.00                  | 0.00                 | 0.00                |
| <b>PBHL/TD - PBHL-Regina Com 25-2-14-15</b> |                 |             |                       |              |              |                         |                       |                      |                     |

| Design Targets        |                                                                                                   |               |             |            |              |              |                 |                |            |
|-----------------------|---------------------------------------------------------------------------------------------------|---------------|-------------|------------|--------------|--------------|-----------------|----------------|------------|
| Target Name           | hit/miss target                                                                                   | Dip Angle (°) | Dip Dir (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) |            |
| Banshee Mesa Grand -C | - plan misses target center by 6961.76usft at 13979.22usft MD (6884.27 TVD, 305.63 N, -7294.63 E) | 0.00          | 360.00      | 0.00       | -730.00      | -7,276.34    | 1,965,792.82    | 266,690.90     | 36.40006   |
| - Point               |                                                                                                   |               |             |            |              |              |                 |                | -107.04279 |
| PBHL-Regina Com 25-2  | - plan hits target center                                                                         | 0.00          | 360.00      | 6,882.00   | 311.04       | -7,843.69    | 1,966,833.86    | 266,123.55     | 36.40291   |
| - Point               |                                                                                                   |               |             |            |              |              |                 |                | -107.04474 |
| LP-RC 25-2-14-15      | - plan hits target center                                                                         | 0.00          | 360.00      | 6,912.00   | 240.00       | -636.62      | 1,966,762.82    | 273,330.62     | 36.40288   |
| - Point               |                                                                                                   |               |             |            |              |              |                 |                | -107.02025 |

| Casing Points         |                       |      |                     |                   |  |
|-----------------------|-----------------------|------|---------------------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (") | Hole Diameter (") |  |
| 7,320.83              | 6,912.00              | 7"   | 7                   | 8-3/4             |  |



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Planning Report



|           |                           |                              |                            |
|-----------|---------------------------|------------------------------|----------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well Regina Com 25-2-14-15 |
| Company:  | Anschutz Oil Company, LLC | TVD Reference:               | KB 16 @ 7322.00usft (TBD)  |
| Project:  | Rio Arriba, NM            | MD Reference:                | KB 16 @ 7322.00usft (TBD)  |
| Site:     | Sec. 14 -T25N-R02W        | North Reference:             | Grid                       |
| Well:     | Regina Com 25-2-14-15     | Survey Calculation Method:   | Minimum Curvature          |
| Wellbore: | Original Hole             |                              |                            |
| Design:   | Rev.1                     |                              |                            |

| Formations            |                       |                          |           |         |                   |  |
|-----------------------|-----------------------|--------------------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name                     | Lithology | Dip (°) | Dip Direction (°) |  |
| 3,375.00              | 3,375.00              | Fruitland FM             |           | 0.00    |                   |  |
| 3,416.00              | 3,416.00              | Picture Cliffs           |           | 0.00    |                   |  |
| 3,522.00              | 3,522.00              | Lewis                    |           | 0.00    |                   |  |
| 3,876.00              | 3,876.00              | Huerfanito Bentonite     |           | 0.00    |                   |  |
| 5,176.00              | 5,176.00              | Menefee                  |           | 0.00    |                   |  |
| 5,614.00              | 5,614.00              | Point Lookout            |           | 0.00    |                   |  |
| 5,820.00              | 5,820.00              | Mancos                   |           | 0.00    |                   |  |
| 6,998.38              | 6,842.00              | Ojito                    |           | 0.00    |                   |  |
| 7,320.47              | 6,912.00              | Landing Point (in Ojito) |           | 0.00    |                   |  |

| Plan Annotations      |                       |                   |              |                           |  |
|-----------------------|-----------------------|-------------------|--------------|---------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              |                           |  |
|                       |                       | +N/-S (usft)      | +E/-W (usft) | Comment                   |  |
| 6,275.38              | 6,275.38              | 0.00              | 0.00         | KOP, Build 9.58°/100' DLS |  |
| 6,796.50              | 6,732.87              | 118.20            | -177.49      | Build/Turn 9.58°/100' DLS |  |
| 7,320.83              | 6,912.00              | 240.00            | -636.62      | LP, Hold to TD            |  |
| 14,528.31             | 6,882.00              | 311.04            | -7,843.69    | PBHL/TD                   |  |



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## **Anschutz Oil Company, LLC**

Rio Arriba, NM

Sec.14 -T25N-R02W

Regina Com 25-2-14-15

Original Hole

Rev 1

## **Anticollision Report**

03 November, 2014





A Schlumberger Company

## Schlumberger Anticollision Report



|                     |                           |                              |                            |
|---------------------|---------------------------|------------------------------|----------------------------|
| Company:            | Anschutz Oil Company, LLC | Local Co-ordinate Reference: | Well Regina Com 25-2-14-15 |
| Project:            | Rio Arriba, NM            | TVD Reference:               | KB 16 @ 7322.00usft (TBD)  |
| Reference Site:     | Sec 14 -T25N-R02W         | MD Reference:                | KB 16 @ 7322.00usft (TBD)  |
| Site Error:         | 0.00 usft                 | North Reference:             | Grid                       |
| Reference Well:     | Regina Com 25-2-14-15     | Survey Calculation Method:   | Minimum Curvature          |
| Well Error:         | 0.00 usft                 | Output errors are at:        | 2.00 sigma                 |
| Reference Wellbore: | Original Hole             | Database:                    | EDM 5000.1 Single User Db  |
| Reference Design:   | Rev 1                     | Offset TVD Reference:        | Offset Datum               |

|                              |                                                                     |                |                     |
|------------------------------|---------------------------------------------------------------------|----------------|---------------------|
| Reference                    | Rev 1                                                               |                |                     |
| Filter type:                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                |                     |
| Interpolation Method:        | MD Interval 100.00usft                                              | Error Model:   | ISCWSA              |
| Depth Range:                 | Unlimited                                                           | Scan Method:   | Closest Approach 3D |
| Results Limited by:          | Maximum center-center distance of 10,000.00 usft                    | Error Surface: | Elliptical Conic    |
| Warning Levels Evaluated at: | 2.00 Sigma                                                          | Casing Method: | Not applied         |

|                     |              |                       |           |                |  |
|---------------------|--------------|-----------------------|-----------|----------------|--|
| Survey Tool Program |              | Date                  | 11/3/2014 |                |  |
| From<br>(usft)      | To<br>(usft) | Survey (Wellbore)     | Tool Name | Description    |  |
| 0.00                | 14,527.67    | Rev 1 (Original Hole) | MWD       | MWD - Standard |  |

| Summary                                   |                                 |                              |                                 |                                  |                   |         |
|-------------------------------------------|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|---------|
| Site Name                                 | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning |
| Offset Well - Wellbore - Design           |                                 |                              |                                 |                                  |                   |         |
| Sec 14 -T25N-R02W                         |                                 |                              |                                 |                                  |                   |         |
| Badger Com 14 - OH (Offset) - OH (Offset) | 0.00                            | 0.00                         | 967.58                          |                                  |                   |         |
| Badger Com 14 - OH (Offset) - OH (Offset) | 6,000.00                        | 5,845.00                     | 1,074.73                        | 1,061.38                         | 80.469            | SF      |
| Banshee (Offset) - OH Offset - OH Offset  | 0.00                            | 0.00                         | 967.60                          |                                  |                   |         |
| Banshee (Offset) - OH Offset - OH Offset  | 200.00                          | 191.18                       | 967.76                          | 967.44                           | 3,031.157         | ES      |
| Banshee (Offset) - OH Offset - OH Offset  | 14,500.00                       | 6,871.49                     | 8,696.05                        | 8,482.64                         | 40.749            | SF      |

| Offset Design Sec 14 -T25N-R02W - Badger Com 14 - OH (Offset) - OH (Offset) |                       |                       |                       |                  |               |                       |                        |             |                        |                         |                           |                   |         |
|-----------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------|-------------|------------------------|-------------------------|---------------------------|-------------------|---------|
| Survey Program: 256                                                         |                       |                       |                       |                  |               |                       |                        |             |                        |                         |                           |                   |         |
| Reference                                                                   |                       | Offset                |                       | Semi Major Axis  |               | Highside Toolface (°) | Offset Wellbore Centre |             | Distance               |                         | Minimum Separation (usft) | Separation Factor | Warning |
| Measured Depth (usft)                                                       | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) |                       | +N-S (usft)            | +E-W (usft) | Between Centres (usft) | Between Ellipses (usft) |                           |                   |         |
| 0.00                                                                        | 0.00                  | 0.00                  | 0.00                  | 0.00             |               | 65.06                 | 408.05                 | 877.32      | 967.58                 |                         |                           |                   |         |
| 100.00                                                                      | 100.00                | 99.91                 | 99.91                 | 0.09             |               | 65.04                 | 408.31                 | 877.32      | 967.69                 | 967.59                  | 0.09                      | N/A               |         |
| 200.00                                                                      | 200.00                | 197.86                | 197.86                | 0.32             |               | 65.00                 | 409.05                 | 877.32      | 968.01                 | 967.69                  | 0.32                      | 3,031.010         |         |
| 300.00                                                                      | 300.00                | 296.34                | 296.33                | 0.54             |               | 64.94                 | 410.27                 | 877.32      | 968.53                 | 967.99                  | 0.54                      | 1,779.948         |         |
| 400.00                                                                      | 400.00                | 395.60                | 395.58                | 0.77             |               | 64.86                 | 411.73                 | 877.32      | 969.15                 | 968.38                  | 0.77                      | 1,260.442         |         |
| 500.00                                                                      | 500.00                | 494.86                | 494.82                | 0.99             |               | 64.77                 | 413.36                 | 877.32      | 969.85                 | 968.86                  | 0.99                      | 976.037           |         |
| 600.00                                                                      | 600.00                | 596.22                | 596.17                | 1.22             |               | 64.69                 | 414.97                 | 877.32      | 970.53                 | 969.31                  | 1.22                      | 796.541           |         |
| 700.00                                                                      | 700.00                | 697.70                | 697.64                | 1.44             |               | 64.62                 | 416.21                 | 877.32      | 971.06                 | 969.61                  | 1.44                      | 672.850           |         |
| 800.00                                                                      | 800.00                | 798.05                | 797.99                | 1.67             |               | 64.57                 | 417.15                 | 877.32      | 971.46                 | 969.79                  | 1.67                      | 582.422           |         |
| 900.00                                                                      | 900.00                | 897.32                | 897.25                | 1.89             |               | 64.51                 | 418.19                 | 877.32      | 971.91                 | 970.02                  | 1.89                      | 513.496           |         |
| 1,000.00                                                                    | 1,000.00              | 997.00                | 996.93                | 2.12             |               | 64.45                 | 419.41                 | 877.32      | 972.44                 | 970.32                  | 2.12                      | 459.238           |         |
| 1,100.00                                                                    | 1,100.00              | 1,097.69              | 1,097.61              | 2.34             |               | 64.39                 | 420.60                 | 877.32      | 972.94                 | 970.60                  | 2.34                      | 415.386           |         |
| 1,200.00                                                                    | 1,200.00              | 1,198.82              | 1,198.73              | 2.57             |               | 64.34                 | 421.52                 | 877.32      | 973.34                 | 970.77                  | 2.57                      | 379.169           |         |
| 1,300.00                                                                    | 1,300.00              | 1,299.94              | 1,299.86              | 2.79             |               | 64.30                 | 422.16                 | 877.32      | 973.61                 | 970.82                  | 2.79                      | 348.742           |         |
| 1,400.00                                                                    | 1,400.00              | 1,401.07              | 1,400.98              | 3.02             |               | 64.28                 | 422.54                 | 877.32      | 973.78                 | 970.76                  | 3.02                      | 322.810           |         |
| 1,500.00                                                                    | 1,500.00              | 1,501.94              | 1,501.85              | 3.24             |               | 64.28                 | 422.65                 | 877.32      | 973.82                 | 970.58                  | 3.24                      | 300.440           |         |
| 1,600.00                                                                    | 1,600.00              | 1,600.45              | 1,600.36              | 3.47             |               | 64.27                 | 422.86                 | 877.32      | 973.92                 | 970.45                  | 3.47                      | 280.984           |         |
| 1,700.00                                                                    | 1,700.00              | 1,698.95              | 1,698.87              | 3.69             |               | 64.24                 | 423.42                 | 877.32      | 974.16                 | 970.47                  | 3.69                      | 263.939           |         |
| 1,800.00                                                                    | 1,800.00              | 1,797.93              | 1,797.84              | 3.92             |               | 64.19                 | 424.29                 | 877.32      | 974.55                 | 970.63                  | 3.92                      | 248.886           |         |
| 1,900.00                                                                    | 1,900.00              | 1,897.18              | 1,897.08              | 4.14             |               | 64.13                 | 425.35                 | 877.32      | 975.01                 | 970.87                  | 4.14                      | 235.488           |         |
| 2,000.00                                                                    | 2,000.00              | 1,996.43              | 1,996.33              | 4.36             |               | 64.07                 | 426.58                 | 877.32      | 975.55                 | 971.19                  | 4.37                      | 223.487           |         |
| 2,100.00                                                                    | 2,100.00              | 2,095.68              | 2,095.56              | 4.59             |               | 64.00                 | 427.99                 | 877.32      | 976.17                 | 971.58                  | 4.59                      | 212.678           |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



A Schlumberger Company

# Schlumberger Anticollision Report



|                     |                           |                              |                            |
|---------------------|---------------------------|------------------------------|----------------------------|
| Company:            | Anschutz Oil Company, LLC | Local Co-ordinate Reference: | Well Regina Com 25-2-14-15 |
| Project:            | Rio Arriba, NM            | TVD Reference:               | KB 16 @ 7322.00usft (TBD)  |
| Reference Site:     | Sec 14 - T25N-R02W        | MD Reference:                | KB 16 @ 7322.00usft (TBD)  |
| Site Error:         | 0.00 usft                 | North Reference:             | Grid                       |
| Reference Well:     | Regina Com 25-2-14-15     | Survey Calculation Method:   | Minimum Curvature          |
| Well Error:         | 0.00 usft                 | Output errors are at:        | 2.00 sigma                 |
| Reference Wellbore: | Original Hole             | Database:                    | EDM 5000.1 Single User Db  |
| Reference Design:   | Rev 1                     | Offset TVD Reference:        | Offset Datum               |

| Offset Design: Sec 14 - T25N-R02W - Badger Com 14 - OH (Offset) - OH (Offset) |                       |                       |                       |                  |               |                      |                                    |                                    |                        |                         |                           |                   | Offset Site Error: |
|-------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|----------------------|------------------------------------|------------------------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|
| Survey Program: 250                                                           |                       |                       |                       |                  |               |                      |                                    |                                    |                        |                         |                           |                   | 0.00 usft          |
| Reference                                                                     |                       |                       |                       |                  |               |                      |                                    |                                    |                        |                         |                           |                   | Offset Well Error: |
| Offset                                                                        |                       |                       |                       |                  |               |                      |                                    |                                    |                        |                         |                           |                   | 0.00 usft          |
| Semi Major Axis                                                               |                       |                       |                       |                  |               |                      |                                    |                                    |                        |                         |                           |                   |                    |
| Measured Depth (usft)                                                         | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Tooface (") | Offset Wellbore Centre +N-S (usft) | Offset Wellbore Centre +E-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning            |
| 2,200.00                                                                      | 2,200.00              | 2,194.92              | 2,194.79              | 4.81             |               | 63.91                | 429.57                             | 877.32                             | 976.87                 | 972.06                  | 4.81                      | 202.894           |                    |
| 2,300.00                                                                      | 2,300.00              | 2,291.11              | 2,290.97              | 5.04             |               | 63.81                | 431.47                             | 877.32                             | 977.75                 | 972.71                  | 5.04                      | 194.018           |                    |
| 2,400.00                                                                      | 2,400.00              | 2,385.36              | 2,385.16              | 5.26             |               | 63.65                | 434.50                             | 877.32                             | 979.17                 | 973.91                  | 5.26                      | 186.005           |                    |
| 2,500.00                                                                      | 2,500.00              | 2,483.00              | 2,482.70              | 5.49             |               | 63.42                | 438.95                             | 877.32                             | 981.20                 | 975.71                  | 5.49                      | 178.757           |                    |
| 2,600.00                                                                      | 2,600.00              | 2,576.27              | 2,575.82              | 5.71             |               | 63.15                | 444.13                             | 877.32                             | 983.68                 | 977.97                  | 5.71                      | 172.161           |                    |
| 2,700.00                                                                      | 2,700.00              | 2,679.59              | 2,678.97              | 5.94             |               | 62.84                | 450.05                             | 877.32                             | 986.29                 | 980.35                  | 5.94                      | 166.084           |                    |
| 2,800.00                                                                      | 2,800.00              | 2,783.46              | 2,782.74              | 6.16             |               | 62.60                | 454.83                             | 877.32                             | 988.40                 | 982.24                  | 6.16                      | 160.370           |                    |
| 2,900.00                                                                      | 2,900.00              | 2,886.67              | 2,885.87              | 6.39             |               | 62.39                | 458.83                             | 877.32                             | 990.19                 | 983.81                  | 6.39                      | 155.007           |                    |
| 3,000.00                                                                      | 3,000.00              | 2,982.26              | 2,981.39              | 6.61             |               | 62.20                | 462.61                             | 877.32                             | 992.03                 | 985.42                  | 6.61                      | 150.017           |                    |
| 3,100.00                                                                      | 3,100.00              | 3,077.52              | 3,076.52              | 6.84             |               | 61.96                | 467.32                             | 877.32                             | 994.35                 | 987.52                  | 6.84                      | 145.425           |                    |
| 3,200.00                                                                      | 3,200.00              | 3,176.62              | 3,175.46              | 7.06             |               | 61.67                | 473.07                             | 877.32                             | 997.10                 | 990.03                  | 7.06                      | 141.185           |                    |
| 3,300.00                                                                      | 3,300.00              | 3,283.72              | 3,282.43              | 7.29             |               | 61.40                | 478.26                             | 877.32                             | 999.41                 | 992.12                  | 7.29                      | 137.147           |                    |
| 3,400.00                                                                      | 3,400.00              | 3,387.04              | 3,385.68              | 7.51             |               | 61.22                | 481.96                             | 877.32                             | 1,001.13               | 993.61                  | 7.51                      | 133.272           |                    |
| 3,500.00                                                                      | 3,500.00              | 3,487.83              | 3,486.42              | 7.74             |               | 61.05                | 485.29                             | 877.32                             | 1,002.72               | 994.98                  | 7.74                      | 129.606           |                    |
| 3,600.00                                                                      | 3,600.00              | 3,588.10              | 3,586.64              | 7.96             |               | 60.89                | 488.42                             | 877.32                             | 1,004.24               | 996.27                  | 7.96                      | 126.138           |                    |
| 3,700.00                                                                      | 3,700.00              | 3,684.24              | 3,682.73              | 8.19             |               | 60.73                | 491.62                             | 877.32                             | 1,005.96               | 997.77                  | 8.19                      | 122.685           |                    |
| 3,800.00                                                                      | 3,800.00              | 3,780.33              | 3,778.72              | 8.41             |               | 60.52                | 495.95                             | 877.32                             | 1,008.07               | 999.66                  | 8.41                      | 119.852           |                    |
| 3,900.00                                                                      | 3,900.00              | 3,879.58              | 3,877.86              | 8.64             |               | 60.29                | 500.71                             | 877.32                             | 1,010.44               | 1,001.81                | 8.64                      | 117.007           |                    |
| 4,000.00                                                                      | 4,000.00              | 3,979.36              | 3,977.52              | 8.86             |               | 60.05                | 505.53                             | 877.32                             | 1,012.85               | 1,003.98                | 8.86                      | 114.310           |                    |
| 4,100.00                                                                      | 4,100.00              | 4,079.13              | 4,077.18              | 9.09             |               | 59.81                | 510.36                             | 877.32                             | 1,015.28               | 1,006.19                | 9.09                      | 111.750           |                    |
| 4,200.00                                                                      | 4,200.00              | 4,178.90              | 4,176.83              | 9.31             |               | 59.58                | 515.22                             | 877.32                             | 1,017.74               | 1,008.43                | 9.31                      | 109.316           |                    |
| 4,300.00                                                                      | 4,300.00              | 4,278.67              | 4,276.48              | 9.53             |               | 59.34                | 520.10                             | 877.32                             | 1,020.22               | 1,010.69                | 9.53                      | 107.000           |                    |
| 4,400.00                                                                      | 4,400.00              | 4,378.44              | 4,376.13              | 9.76             |               | 59.10                | 525.00                             | 877.32                             | 1,022.74               | 1,012.98                | 9.76                      | 104.794           |                    |
| 4,500.00                                                                      | 4,500.00              | 4,478.21              | 4,475.77              | 9.98             |               | 58.87                | 529.92                             | 877.32                             | 1,025.28               | 1,015.30                | 9.98                      | 102.689           |                    |
| 4,600.00                                                                      | 4,600.00              | 4,577.97              | 4,575.41              | 10.21            |               | 58.63                | 534.86                             | 877.32                             | 1,027.85               | 1,017.65                | 10.21                     | 100.680           |                    |
| 4,700.00                                                                      | 4,700.00              | 4,677.73              | 4,675.05              | 10.43            |               | 58.40                | 539.83                             | 877.32                             | 1,030.46               | 1,020.02                | 10.43                     | 98.761            |                    |
| 4,800.00                                                                      | 4,800.00              | 4,777.49              | 4,774.69              | 10.66            |               | 58.16                | 544.81                             | 877.32                             | 1,033.08               | 1,022.43                | 10.66                     | 96.925            |                    |
| 4,900.00                                                                      | 4,900.00              | 4,877.25              | 4,874.32              | 10.88            |               | 57.92                | 549.82                             | 877.32                             | 1,035.74               | 1,024.86                | 10.88                     | 95.167            |                    |
| 5,000.00                                                                      | 5,000.00              | 4,977.01              | 4,973.95              | 11.11            |               | 57.69                | 554.84                             | 877.32                             | 1,038.43               | 1,027.32                | 11.11                     | 93.484            |                    |
| 5,100.00                                                                      | 5,100.00              | 5,076.76              | 5,073.58              | 11.33            |               | 57.45                | 559.89                             | 877.32                             | 1,041.15               | 1,029.81                | 11.33                     | 91.869            |                    |
| 5,200.00                                                                      | 5,200.00              | 5,176.51              | 5,173.20              | 11.56            |               | 57.22                | 564.96                             | 877.32                             | 1,043.89               | 1,032.33                | 11.56                     | 90.320            |                    |
| 5,300.00                                                                      | 5,300.00              | 5,276.26              | 5,272.82              | 11.78            |               | 56.99                | 570.05                             | 877.32                             | 1,046.66               | 1,034.88                | 11.78                     | 88.833            |                    |
| 5,400.00                                                                      | 5,400.00              | 5,376.01              | 5,372.43              | 12.01            |               | 56.75                | 575.16                             | 877.32                             | 1,049.47               | 1,037.46                | 12.01                     | 87.403            |                    |
| 5,500.00                                                                      | 5,500.00              | 5,475.75              | 5,472.05              | 12.23            |               | 56.52                | 580.29                             | 877.32                             | 1,052.30               | 1,040.07                | 12.23                     | 86.029            |                    |
| 5,600.00                                                                      | 5,600.00              | 5,575.50              | 5,571.65              | 12.46            |               | 56.28                | 585.44                             | 877.32                             | 1,055.16               | 1,042.70                | 12.46                     | 84.706            |                    |
| 5,700.00                                                                      | 5,700.00              | 5,675.24              | 5,671.26              | 12.68            |               | 56.05                | 590.62                             | 877.32                             | 1,058.05               | 1,045.37                | 12.68                     | 83.433            |                    |
| 5,800.00                                                                      | 5,800.00              | 5,774.97              | 5,770.86              | 12.91            |               | 55.82                | 595.81                             | 877.32                             | 1,060.97               | 1,048.06                | 12.91                     | 82.206            |                    |
| 5,900.00                                                                      | 5,900.00              | 5,874.69              | 5,870.49              | 13.13            |               | 55.66                | 599.47                             | 877.32                             | 1,064.33               | 1,051.20                | 13.13                     | 81.055            |                    |
| 6,000.00                                                                      | 6,000.00              | 5,974.40              | 5,970.13              | 13.36            |               | 55.66                | 599.47                             | 877.32                             | 1,074.73               | 1,061.38                | 13.36                     | 80.469 SF         |                    |
| 6,100.00                                                                      | 6,100.00              | 5,974.40              | 5,970.13              | 13.58            |               | 55.66                | 599.47                             | 877.32                             | 1,094.21               | 1,080.63                | 13.58                     | 80.572            |                    |
| 6,200.00                                                                      | 6,200.00              | 5,974.40              | 5,970.13              | 13.81            |               | 55.66                | 599.47                             | 877.32                             | 1,122.29               | 1,108.48                | 13.81                     | 81.294            |                    |
| 6,300.00                                                                      | 6,299.99              | 5,974.40              | 5,970.13              | 14.03            |               | 111.05               | 599.47                             | 877.32                             | 1,158.52               | 1,144.49                | 14.03                     | 82.591            |                    |
| 6,400.00                                                                      | 6,399.10              | 5,974.40              | 5,970.13              | 14.25            |               | 106.18               | 599.47                             | 877.32                             | 1,205.60               | 1,191.38                | 14.22                     | 84.763            |                    |
| 6,500.00                                                                      | 6,494.74              | 5,974.40              | 5,970.13              | 14.48            |               | 99.68                | 599.47                             | 877.32                             | 1,262.65               | 1,248.20                | 14.45                     | 87.388            |                    |
| 6,600.00                                                                      | 6,584.26              | 5,974.40              | 5,970.13              | 14.76            |               | 91.67                | 599.47                             | 877.32                             | 1,326.90               | 1,312.15                | 14.75                     | 89.965            |                    |
| 6,700.00                                                                      | 6,665.13              | 5,974.40              | 5,970.13              | 15.13            |               | 82.60                | 599.47                             | 877.32                             | 1,395.70               | 1,380.60                | 15.09                     | 92.462            |                    |
| 6,800.00                                                                      | 6,735.12              | 5,974.40              | 5,970.13              | 15.69            |               | 73.40                | 599.47                             | 877.32                             | 1,466.61               | 1,451.22                | 15.39                     | 95.299            |                    |
| 6,900.00                                                                      | 6,794.27              | 5,974.40              | 5,970.13              | 16.49            |               | 68.04                | 599.47                             | 877.32                             | 1,542.07               | 1,526.32                | 15.75                     | 97.914            |                    |
| 7,000.00                                                                      | 6,842.69              | 5,974.40              | 5,970.13              | 17.59            |               | 58.31                | 599.47                             | 877.32                             | 1,623.23               | 1,607.60                | 15.63                     | 103.856           |                    |
| 7,100.00                                                                      | 6,879.03              | 5,974.40              | 5,970.13              | 18.97            |               | 45.73                | 599.47                             | 877.32                             | 1,707.19               | 1,692.55                | 14.64                     | 116.624           |                    |
| 7,200.00                                                                      | 6,902.28              | 5,974.40              | 5,970.13              | 20.59            |               | 32.73                | 599.47                             | 877.32                             | 1,791.38               | 1,778.47                | 12.91                     | 138.750           |                    |
| 7,300.00                                                                      | 6,911.78              | 5,974.40              | 5,970.13              | 22.40            |               | 21.25                | 599.47                             | 877.32                             | 1,873.56               | 1,862.38                | 11.17                     | 167.674           |                    |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



A Schlumberger Company

# Schlumberger Anticollision Report



|                     |                           |                              |                            |
|---------------------|---------------------------|------------------------------|----------------------------|
| Company:            | Anschutz Oil Company, LLC | Local Co-ordinate Reference: | Well Regina Com 25-2-14-15 |
| Project:            | Rio Arriba, NM            | TVD Reference:               | KB 16 @ 7322.00usft (TBD)  |
| Reference Site:     | Sec 14 - T25N-R02W        | MD Reference:                | KB 16 @ 7322.00usft (TBD)  |
| Site Error:         | 0.00 usft                 | North Reference:             | Grid                       |
| Reference Well:     | Regina Com 25-2-14-15     | Survey Calculation Method:   | Minimum Curvature          |
| Well Error:         | 0.00 usft                 | Output errors are at:        | 2.00 sigma                 |
| Reference Wellbore: | Original Hole             | Database:                    | EDM 5000.1 Single User Db  |
| Reference Design:   | Rev 1                     | Offset TVD Reference:        | Offset Datum:              |

| Offset Design                                                  |                       |                       |                       |                  |               |                       |                                     |                |                        |                         |                           |                   | Offset Site Error:           |
|----------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|----------------|------------------------|-------------------------|---------------------------|-------------------|------------------------------|
| Sec 14 - T25N-R02W - Badger Com 14 - OH (Offset) - OH (Offset) |                       |                       |                       |                  |               |                       |                                     |                |                        |                         |                           |                   | 0.00 usft                    |
| Survey Program: 256                                            |                       |                       |                       |                  |               |                       |                                     |                |                        |                         |                           |                   | Offset Well Error: 0.00 usft |
| Reference                                                      | Offset                | Semi Major Axis       |                       | Distance         |               | Warning               |                                     |                |                        |                         |                           |                   |                              |
| Measured Depth (usft)                                          | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +/- S (usft) | +/- E/W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                              |
| 7,400.00                                                       | 6,911.87              | 5,845.00              | 5,840.79              | 24.32            | 19.13         | 19.13                 | 599.47                              | 877.32         | 1,953.90               | 1,942.44                | 11.46                     | 170.545           |                              |
| 7,500.00                                                       | 6,911.25              | 5,845.00              | 5,840.79              | 26.40            | 19.13         | 19.13                 | 599.47                              | 877.32         | 2,035.86               | 2,023.62                | 12.24                     | 166.321           |                              |
| 7,600.00                                                       | 6,910.83              | 5,845.00              | 5,840.79              | 28.60            | 19.13         | 19.13                 | 599.47                              | 877.32         | 2,119.37               | 2,106.29                | 13.08                     | 162.061           |                              |
| 7,700.00                                                       | 6,910.41              | 5,845.00              | 5,840.79              | 30.89            | 19.13         | 19.13                 | 599.47                              | 877.32         | 2,204.25               | 2,190.29                | 13.96                     | 157.914           |                              |
| 7,800.00                                                       | 6,909.99              | 5,845.00              | 5,840.79              | 33.25            | 19.13         | 19.13                 | 599.47                              | 877.32         | 2,290.35               | 2,275.48                | 14.88                     | 153.968           |                              |
| 7,900.00                                                       | 6,909.57              | 5,845.00              | 5,840.79              | 35.67            | 19.13         | 19.13                 | 599.47                              | 877.32         | 2,377.54               | 2,361.72                | 15.82                     | 150.266           |                              |
| 8,000.00                                                       | 6,909.16              | 5,845.00              | 5,840.79              | 38.14            | 19.13         | 19.13                 | 599.47                              | 877.32         | 2,465.71               | 2,448.91                | 16.79                     | 146.823           |                              |
| 8,100.00                                                       | 6,908.74              | 5,845.00              | 5,840.79              | 40.65            | 19.13         | 19.13                 | 599.47                              | 877.32         | 2,554.74               | 2,536.96                | 17.79                     | 143.638           |                              |
| 8,200.00                                                       | 6,908.32              | 5,845.00              | 5,840.79              | 43.19            | 19.13         | 19.13                 | 599.47                              | 877.32         | 2,644.56               | 2,625.77                | 18.80                     | 140.701           |                              |
| 8,300.00                                                       | 6,907.90              | 5,845.00              | 5,840.79              | 45.76            | 19.13         | 19.13                 | 599.47                              | 877.32         | 2,735.09               | 2,715.27                | 19.82                     | 137.986           |                              |
| 8,400.00                                                       | 6,907.48              | 5,845.00              | 5,840.79              | 48.35            | 19.13         | 19.13                 | 599.47                              | 877.32         | 2,826.25               | 2,805.39                | 20.86                     | 135.506           |                              |
| 8,500.00                                                       | 6,907.06              | 5,845.00              | 5,840.79              | 50.96            | 19.13         | 19.13                 | 599.47                              | 877.32         | 2,918.00               | 2,896.09                | 21.90                     | 133.213           |                              |
| 8,600.00                                                       | 6,906.65              | 5,845.00              | 5,840.79              | 53.58            | 19.13         | 19.13                 | 599.47                              | 877.32         | 3,010.27               | 2,987.30                | 22.96                     | 131.098           |                              |
| 8,700.00                                                       | 6,906.23              | 5,845.00              | 5,840.79              | 56.22            | 19.13         | 19.13                 | 599.47                              | 877.32         | 3,103.01               | 3,078.99                | 24.03                     | 129.147           |                              |
| 8,800.00                                                       | 6,905.81              | 5,845.00              | 5,840.79              | 58.87            | 19.13         | 19.13                 | 599.47                              | 877.32         | 3,196.20               | 3,171.10                | 25.10                     | 127.342           |                              |
| 8,900.00                                                       | 6,905.39              | 5,845.00              | 5,840.79              | 61.53            | 19.13         | 19.13                 | 599.47                              | 877.32         | 3,289.79               | 3,263.61                | 26.18                     | 125.671           |                              |
| 9,000.00                                                       | 6,904.98              | 5,845.00              | 5,840.79              | 64.20            | 19.13         | 19.13                 | 599.47                              | 877.32         | 3,383.74               | 3,356.48                | 27.26                     | 124.121           |                              |
| 9,100.00                                                       | 6,904.56              | 5,845.00              | 5,840.79              | 66.88            | 19.13         | 19.13                 | 599.47                              | 877.32         | 3,478.03               | 3,449.68                | 28.35                     | 122.680           |                              |
| 9,200.00                                                       | 6,904.14              | 5,845.00              | 5,840.79              | 69.57            | 19.13         | 19.13                 | 599.47                              | 877.32         | 3,572.63               | 3,543.19                | 29.44                     | 121.339           |                              |
| 9,300.00                                                       | 6,903.72              | 5,845.00              | 5,840.79              | 72.26            | 19.13         | 19.13                 | 599.47                              | 877.32         | 3,667.52               | 3,636.98                | 30.54                     | 120.088           |                              |
| 9,400.00                                                       | 6,903.31              | 5,845.00              | 5,840.79              | 74.96            | 19.13         | 19.13                 | 599.47                              | 877.32         | 3,762.67               | 3,731.03                | 31.64                     | 118.919           |                              |
| 9,500.00                                                       | 6,902.89              | 5,845.00              | 5,840.79              | 77.66            | 19.13         | 19.13                 | 599.47                              | 877.32         | 3,858.07               | 3,825.33                | 32.74                     | 117.825           |                              |
| 9,600.00                                                       | 6,902.47              | 5,845.00              | 5,840.79              | 80.37            | 19.13         | 19.13                 | 599.47                              | 877.32         | 3,953.70               | 3,919.84                | 33.85                     | 116.800           |                              |
| 9,700.00                                                       | 6,902.05              | 5,845.00              | 5,840.79              | 83.08            | 19.13         | 19.13                 | 599.47                              | 877.32         | 4,049.53               | 4,014.57                | 34.96                     | 115.837           |                              |
| 9,800.00                                                       | 6,901.64              | 5,845.00              | 5,840.79              | 85.79            | 19.13         | 19.13                 | 599.47                              | 877.32         | 4,145.56               | 4,109.49                | 36.07                     | 114.931           |                              |
| 9,900.00                                                       | 6,901.22              | 5,845.00              | 5,840.79              | 88.51            | 19.13         | 19.13                 | 599.47                              | 877.32         | 4,241.78               | 4,204.60                | 37.18                     | 114.078           |                              |
| 10,000.00                                                      | 6,900.80              | 5,845.00              | 5,840.79              | 91.23            | 19.13         | 19.13                 | 599.47                              | 877.32         | 4,338.17               | 4,299.87                | 38.30                     | 113.274           |                              |
| 10,100.00                                                      | 6,900.39              | 5,845.00              | 5,840.79              | 93.96            | 19.13         | 19.13                 | 599.47                              | 877.32         | 4,434.72               | 4,395.30                | 39.41                     | 112.514           |                              |
| 10,200.00                                                      | 6,899.97              | 5,845.00              | 5,840.79              | 96.68            | 19.13         | 19.13                 | 599.47                              | 877.32         | 4,531.41               | 4,490.88                | 40.53                     | 111.795           |                              |
| 10,300.00                                                      | 6,899.55              | 5,845.00              | 5,840.79              | 99.41            | 19.13         | 19.13                 | 599.47                              | 877.32         | 4,628.25               | 4,586.60                | 41.65                     | 111.114           |                              |
| 10,400.00                                                      | 6,899.14              | 5,845.00              | 5,840.79              | 102.14           | 19.13         | 19.13                 | 599.47                              | 877.32         | 4,725.22               | 4,682.45                | 42.77                     | 110.469           |                              |
| 10,500.00                                                      | 6,898.72              | 5,845.00              | 5,840.79              | 104.88           | 19.13         | 19.13                 | 599.47                              | 877.32         | 4,822.32               | 4,778.42                | 43.90                     | 109.856           |                              |
| 10,600.00                                                      | 6,898.30              | 5,845.00              | 5,840.79              | 107.61           | 19.13         | 19.13                 | 599.47                              | 877.32         | 4,919.53               | 4,874.50                | 45.02                     | 109.273           |                              |
| 10,700.00                                                      | 6,897.89              | 5,845.00              | 5,840.79              | 110.35           | 19.13         | 19.13                 | 599.47                              | 877.32         | 5,016.84               | 4,970.70                | 46.14                     | 108.719           |                              |
| 10,800.00                                                      | 6,897.47              | 5,845.00              | 5,840.79              | 113.09           | 19.13         | 19.13                 | 599.47                              | 877.32         | 5,114.27               | 5,067.00                | 47.27                     | 108.191           |                              |
| 10,900.00                                                      | 6,897.05              | 5,845.00              | 5,840.79              | 115.83           | 19.13         | 19.13                 | 599.47                              | 877.32         | 5,211.79               | 5,163.39                | 48.40                     | 107.688           |                              |
| 11,000.00                                                      | 6,896.64              | 5,845.00              | 5,840.79              | 118.57           | 19.13         | 19.13                 | 599.47                              | 877.32         | 5,309.40               | 5,259.88                | 49.52                     | 107.207           |                              |
| 11,100.00                                                      | 6,896.22              | 5,845.00              | 5,840.79              | 121.31           | 19.13         | 19.13                 | 599.47                              | 877.32         | 5,407.10               | 5,356.45                | 50.65                     | 106.748           |                              |
| 11,200.00                                                      | 6,895.81              | 5,845.00              | 5,840.79              | 124.06           | 19.13         | 19.13                 | 599.47                              | 877.32         | 5,504.88               | 5,453.10                | 51.78                     | 106.309           |                              |
| 11,300.00                                                      | 6,895.39              | 5,845.00              | 5,840.79              | 126.80           | 19.13         | 19.13                 | 599.47                              | 877.32         | 5,602.74               | 5,549.83                | 52.91                     | 105.888           |                              |
| 11,400.00                                                      | 6,894.97              | 5,845.00              | 5,840.79              | 129.55           | 19.13         | 19.13                 | 599.47                              | 877.32         | 5,700.68               | 5,646.64                | 54.04                     | 105.485           |                              |
| 11,500.00                                                      | 6,894.56              | 5,845.00              | 5,840.79              | 132.30           | 19.13         | 19.13                 | 599.47                              | 877.32         | 5,798.69               | 5,743.51                | 55.17                     | 105.099           |                              |
| 11,600.00                                                      | 6,894.14              | 5,845.00              | 5,840.79              | 135.04           | 19.13         | 19.13                 | 599.47                              | 877.32         | 5,896.76               | 5,840.45                | 56.31                     | 104.729           |                              |
| 11,700.00                                                      | 6,893.73              | 5,845.00              | 5,840.79              | 137.79           | 19.13         | 19.13                 | 599.47                              | 877.32         | 5,994.90               | 5,937.46                | 57.44                     | 104.373           |                              |
| 11,800.00                                                      | 6,893.31              | 5,845.00              | 5,840.79              | 140.54           | 19.13         | 19.13                 | 599.47                              | 877.32         | 6,093.09               | 6,034.52                | 58.57                     | 104.031           |                              |
| 11,900.00                                                      | 6,892.90              | 5,845.00              | 5,840.79              | 143.29           | 19.13         | 19.13                 | 599.47                              | 877.32         | 6,191.35               | 6,131.64                | 59.70                     | 103.702           |                              |
| 12,000.00                                                      | 6,892.48              | 5,845.00              | 5,840.79              | 146.04           | 19.13         | 19.13                 | 599.47                              | 877.32         | 6,289.66               | 6,228.82                | 60.84                     | 103.386           |                              |
| 12,100.00                                                      | 6,892.06              | 5,845.00              | 5,840.79              | 148.80           | 19.13         | 19.13                 | 599.47                              | 877.32         | 6,388.02               | 6,326.05                | 61.97                     | 103.081           |                              |
| 12,200.00                                                      | 6,891.65              | 5,845.00              | 5,840.79              | 151.55           | 19.13         | 19.13                 | 599.47                              | 877.32         | 6,486.43               | 6,423.33                | 63.11                     | 102.787           |                              |
| 12,300.00                                                      | 6,891.23              | 5,845.00              | 5,840.79              | 154.30           | 19.13         | 19.13                 | 599.47                              | 877.32         | 6,584.89               | 6,520.65                | 64.24                     | 102.504           |                              |
| 12,400.00                                                      | 6,890.82              | 5,845.00              | 5,840.79              | 157.05           | 19.13         | 19.13                 | 599.47                              | 877.32         | 6,683.40               | 6,618.02                | 65.38                     | 102.230           |                              |
| 12,500.00                                                      | 6,890.40              | 5,845.00              | 5,840.79              | 159.81           | 19.13         | 19.13                 | 599.47                              | 877.32         | 6,781.95               | 6,715.44                | 66.51                     | 101.967           |                              |

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



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# Schlumberger Anticollision Report



|                     |                           |                              |                            |
|---------------------|---------------------------|------------------------------|----------------------------|
| Company:            | Anschutz Oil Company, LLC | Local Co-ordinate Reference: | Well Regina Com 25-2-14-15 |
| Project:            | Rio Arriba, NM            | TVD Reference:               | KB 16 @ 7322.00usft (TBD)  |
| Reference Site:     | Sec 14 - T25N-R02W        | MD Reference:                | KB 16 @ 7322.00usft (TBD)  |
| Site Error:         | 0.00 usft                 | North Reference:             | Grid                       |
| Reference Well:     | Regina Com 25-2-14-15     | Survey Calculation Method:   | Minimum Curvature          |
| Well Error:         | 0.00 usft                 | Output errors are at:        | 2.00 sigma                 |
| Reference Wellbore: | Original Hole             | Database:                    | EDM 5000.1 Single User Db  |
| Reference Design:   | Rev 1                     | Offset TVD Reference:        | Offset Datum               |

| Offset Design                                                                       |                       |                       |                       |                  |               |                       |                                    |                    |                        |                         |                           |                   | Offset Site Error: |  | 0.00 usft |
|-------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------------------|--------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|--|-----------|
| Survey Program: 256- Sec 14 - T25N-R02W - Badger Com 14 - OH (Offset) - OH (Offset) |                       |                       |                       |                  |               |                       |                                    |                    |                        |                         |                           |                   | Offset Well Error: |  | 0.00 usft |
| Reference                                                                           |                       | Offset                |                       | Semi Major Axis  |               | Highside Toolface (°) | Distance                           |                    |                        |                         |                           | Separation Factor | Warning            |  |           |
| Measured Depth (usft)                                                               | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) |                       | Offset Wellbore Centre +N-S (usft) | Centre +E-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) |                   |                    |  |           |
| 12,600.00                                                                           | 6,889.99              | 5,845.00              | 5,840.79              | 162.56           |               | 19.13                 | 599.47                             | 877.32             | 6,880.54               | 6,812.89                | 67.65                     | 101.712           |                    |  |           |
| 12,700.00                                                                           | 6,889.57              | 5,845.00              | 5,840.79              | 165.32           |               | 19.13                 | 599.47                             | 877.32             | 6,979.17               | 6,910.39                | 68.78                     | 101.465           |                    |  |           |
| 12,800.00                                                                           | 6,889.16              | 5,845.00              | 5,840.79              | 168.07           |               | 19.13                 | 599.47                             | 877.32             | 7,077.84               | 7,007.92                | 69.92                     | 101.227           |                    |  |           |
| 12,900.00                                                                           | 6,888.74              | 5,845.00              | 5,840.79              | 170.83           |               | 19.13                 | 599.47                             | 877.32             | 7,176.55               | 7,105.49                | 71.06                     | 100.996           |                    |  |           |
| 13,000.00                                                                           | 6,888.33              | 5,845.00              | 5,840.79              | 173.59           |               | 19.13                 | 599.47                             | 877.32             | 7,275.29               | 7,203.10                | 72.19                     | 100.773           |                    |  |           |
| 13,100.00                                                                           | 6,887.91              | 5,845.00              | 5,840.79              | 176.34           |               | 19.13                 | 599.47                             | 877.32             | 7,374.07               | 7,300.73                | 73.33                     | 100.557           |                    |  |           |
| 13,200.00                                                                           | 6,887.50              | 5,845.00              | 5,840.79              | 179.10           |               | 19.13                 | 599.47                             | 877.32             | 7,472.87               | 7,398.40                | 74.47                     | 100.348           |                    |  |           |
| 13,300.00                                                                           | 6,887.09              | 5,845.00              | 5,840.79              | 181.86           |               | 19.13                 | 599.47                             | 877.32             | 7,571.71               | 7,496.11                | 75.61                     | 100.145           |                    |  |           |
| 13,400.00                                                                           | 6,886.67              | 5,845.00              | 5,840.79              | 184.62           |               | 19.13                 | 599.47                             | 877.32             | 7,670.58               | 7,593.84                | 76.75                     | 99.948            |                    |  |           |
| 13,500.00                                                                           | 6,886.26              | 5,845.00              | 5,840.79              | 187.38           |               | 19.13                 | 599.47                             | 877.32             | 7,769.48               | 7,691.60                | 77.88                     | 99.756            |                    |  |           |
| 13,600.00                                                                           | 6,885.84              | 5,845.00              | 5,840.79              | 190.13           |               | 19.13                 | 599.47                             | 877.32             | 7,868.41               | 7,789.39                | 79.02                     | 99.571            |                    |  |           |
| 13,700.00                                                                           | 6,885.43              | 5,845.00              | 5,840.79              | 192.89           |               | 19.13                 | 599.47                             | 877.32             | 7,967.36               | 7,887.20                | 80.16                     | 99.391            |                    |  |           |
| 13,800.00                                                                           | 6,885.01              | 5,845.00              | 5,840.79              | 195.65           |               | 19.13                 | 599.47                             | 877.32             | 8,066.34               | 7,985.04                | 81.30                     | 99.216            |                    |  |           |
| 13,900.00                                                                           | 6,884.60              | 5,845.00              | 5,840.79              | 198.41           |               | 19.13                 | 599.47                             | 877.32             | 8,165.35               | 8,082.91                | 82.44                     | 99.045            |                    |  |           |
| 14,000.00                                                                           | 6,884.19              | 5,845.00              | 5,840.79              | 201.17           |               | 19.13                 | 599.47                             | 877.32             | 8,264.38               | 8,180.80                | 83.58                     | 98.880            |                    |  |           |
| 14,100.00                                                                           | 6,883.77              | 5,845.00              | 5,840.79              | 203.93           |               | 19.13                 | 599.47                             | 877.32             | 8,363.43               | 8,278.71                | 84.72                     | 98.719            |                    |  |           |
| 14,200.00                                                                           | 6,883.36              | 5,845.00              | 5,840.79              | 206.69           |               | 19.13                 | 599.47                             | 877.32             | 8,462.50               | 8,376.64                | 85.86                     | 98.562            |                    |  |           |
| 14,300.00                                                                           | 6,882.94              | 5,845.00              | 5,840.79              | 209.45           |               | 19.13                 | 599.47                             | 877.32             | 8,561.60               | 8,474.60                | 87.00                     | 98.410            |                    |  |           |
| 14,400.00                                                                           | 6,882.53              | 5,845.00              | 5,840.79              | 212.21           |               | 19.13                 | 599.47                             | 877.32             | 8,660.71               | 8,572.57                | 88.14                     | 98.262            |                    |  |           |
| 14,500.00                                                                           | 6,882.12              | 5,845.00              | 5,840.79              | 214.98           |               | 19.13                 | 599.47                             | 877.32             | 8,759.85               | 8,670.57                | 89.28                     | 98.117            |                    |  |           |
| 14,528.31                                                                           | 6,882.00              | 5,845.00              | 5,840.79              | 215.48           |               | 19.13                 | 599.47                             | 877.32             | 8,787.92               | 8,698.45                | 89.47                     | 98.222            |                    |  |           |



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# Schlumberger Anticollision Report



|                            |                           |                                     |                            |
|----------------------------|---------------------------|-------------------------------------|----------------------------|
| <b>Company:</b>            | Anschutz Oil Company, LLC | <b>Local Co-ordinate Reference:</b> | Well Regina Com 25-2-14-15 |
| <b>Project:</b>            | Rio Arriba, NM            | <b>TVD Reference:</b>               | KB 16 @ 7322.00usft (TBD)  |
| <b>Reference Site:</b>     | Sec.14 - T25N-R02W        | <b>MD Reference:</b>                | KB 16 @ 7322.00usft (TBD)  |
| <b>Site Error:</b>         | 0.00 usft                 | <b>North Reference:</b>             | Grid                       |
| <b>Reference Well:</b>     | Regina Com 25-2-14-15     | <b>Survey Calculation Method:</b>   | Minimum Curvature          |
| <b>Well Error:</b>         | 0.00 usft                 | <b>Output errors are at:</b>        | 2.00 sigma                 |
| <b>Reference Wellbore:</b> | Original Hole             | <b>Database:</b>                    | EDM 5000.1 Single User Db  |
| <b>Reference Design:</b>   | Rev 1                     | <b>Offset TVD Reference:</b>        | Offset Datum               |

| Offset Design                                                 |                       |                       |                       |                  |               |                       |                                    |                  |                        |                         |                           |                   | Offset Site Error: |
|---------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------------------|------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|
| Sec.14 - T25N-R02W - Banshee (Offset) - OH Offset - OH Offset |                       |                       |                       |                  |               |                       |                                    |                  |                        |                         |                           |                   | 0.00 usft          |
| Survey Program: 375                                           |                       |                       |                       |                  |               |                       |                                    |                  |                        |                         |                           |                   | Offset Well Error: |
|                                                               |                       |                       |                       |                  |               |                       |                                    |                  |                        |                         |                           |                   | 0.00 usft          |
| Reference                                                     | Offset                | Semi Major Axis       |                       | Distance         |               | Between Centres       |                                    | Between Ellipses |                        | Minimum Separation      |                           | Warning           |                    |
| Measured Depth (usft)                                         | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N-S (usft) | +E-W (usft)      | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |
| 0.00                                                          | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | 65.06                 | 408.05                             | 877.32           | 967.60                 |                         |                           |                   |                    |
| 100.00                                                        | 100.00                | 92.13                 | 92.12                 | 0.09             | 0.00          | 65.05                 | 408.15                             | 877.32           | 967.62                 | 967.52                  | 0.09                      | N/A               |                    |
| 200.00                                                        | 200.00                | 191.18                | 191.18                | 0.32             | 0.00          | 65.03                 | 408.48                             | 877.32           | 967.76                 | 967.44                  | 0.32                      | 3,031.157 ES      |                    |
| 300.00                                                        | 300.00                | 290.24                | 290.24                | 0.54             | 0.00          | 65.00                 | 409.03                             | 877.32           | 967.99                 | 967.45                  | 0.54                      | 1,779.110         |                    |
| 400.00                                                        | 400.00                | 389.48                | 389.48                | 0.77             | 0.00          | 64.96                 | 409.81                             | 877.32           | 968.33                 | 967.56                  | 0.77                      | 1,259.366         |                    |
| 500.00                                                        | 500.00                | 489.84                | 489.83                | 0.99             | 0.00          | 64.92                 | 410.63                             | 877.32           | 968.87                 | 967.68                  | 0.99                      | 974.847           |                    |
| 600.00                                                        | 600.00                | 590.20                | 590.18                | 1.22             | 0.00          | 64.88                 | 411.36                             | 877.32           | 968.98                 | 967.76                  | 1.22                      | 795.269           |                    |
| 700.00                                                        | 700.00                | 690.55                | 690.54                | 1.44             | 0.00          | 64.84                 | 412.00                             | 877.32           | 969.25                 | 967.81                  | 1.44                      | 671.601           |                    |
| 800.00                                                        | 800.00                | 790.92                | 790.90                | 1.67             | 0.00          | 64.81                 | 412.56                             | 877.32           | 969.49                 | 967.82                  | 1.67                      | 581.241           |                    |
| 900.00                                                        | 900.00                | 890.87                | 890.86                | 1.89             | 0.00          | 64.79                 | 413.03                             | 877.32           | 969.69                 | 967.80                  | 1.89                      | 512.324           |                    |
| 1,000.00                                                      | 1,000.00              | 988.89                | 988.87                | 2.12             | 0.00          | 64.75                 | 413.78                             | 877.32           | 970.01                 | 967.90                  | 2.12                      | 458.095           |                    |
| 1,100.00                                                      | 1,100.00              | 1,086.90              | 1,086.87              | 2.34             | 0.00          | 64.69                 | 414.99                             | 877.32           | 970.54                 | 968.20                  | 2.34                      | 414.361           |                    |
| 1,200.00                                                      | 1,200.00              | 1,184.89              | 1,184.85              | 2.57             | 0.00          | 64.60                 | 416.67                             | 877.32           | 971.28                 | 968.71                  | 2.57                      | 378.366           |                    |
| 1,300.00                                                      | 1,300.00              | 1,282.87              | 1,282.81              | 2.79             | 0.00          | 64.48                 | 418.82                             | 877.32           | 972.22                 | 969.43                  | 2.79                      | 348.242           |                    |
| 1,400.00                                                      | 1,400.00              | 1,380.82              | 1,380.73              | 3.02             | 0.00          | 64.34                 | 421.44                             | 877.32           | 973.37                 | 970.36                  | 3.02                      | 322.677           |                    |
| 1,500.00                                                      | 1,500.00              | 1,479.35              | 1,479.20              | 3.24             | 0.00          | 64.18                 | 424.49                             | 877.32           | 974.72                 | 971.48                  | 3.24                      | 300.717           |                    |
| 1,600.00                                                      | 1,600.00              | 1,578.13              | 1,577.93              | 3.47             | 0.00          | 64.00                 | 427.84                             | 877.32           | 976.20                 | 972.74                  | 3.47                      | 281.644           |                    |
| 1,700.00                                                      | 1,700.00              | 1,677.07              | 1,676.80              | 3.69             | 0.00          | 63.81                 | 431.44                             | 877.32           | 977.80                 | 974.11                  | 3.69                      | 264.926           |                    |
| 1,800.00                                                      | 1,800.00              | 1,776.24              | 1,775.90              | 3.92             | 0.00          | 63.61                 | 435.27                             | 877.32           | 979.51                 | 975.60                  | 3.92                      | 250.155           |                    |
| 1,900.00                                                      | 1,900.00              | 1,876.16              | 1,875.74              | 4.14             | 0.00          | 63.41                 | 439.19                             | 877.32           | 981.27                 | 977.13                  | 4.14                      | 236.998           |                    |
| 2,000.00                                                      | 2,000.00              | 1,975.33              | 1,974.83              | 4.36             | 0.00          | 63.20                 | 443.15                             | 877.32           | 983.06                 | 978.69                  | 4.37                      | 225.206           |                    |
| 2,100.00                                                      | 2,100.00              | 2,074.25              | 2,073.66              | 4.59             | 0.00          | 62.99                 | 447.31                             | 877.32           | 984.97                 | 980.38                  | 4.59                      | 214.593           |                    |
| 2,200.00                                                      | 2,200.00              | 2,173.96              | 2,173.28              | 4.81             | 0.00          | 62.76                 | 451.65                             | 877.32           | 986.95                 | 982.14                  | 4.81                      | 204.988           |                    |
| 2,300.00                                                      | 2,300.00              | 2,276.31              | 2,275.54              | 5.04             | 0.00          | 62.54                 | 455.88                             | 877.32           | 988.85                 | 983.81                  | 5.04                      | 196.222           |                    |
| 2,400.00                                                      | 2,400.00              | 2,379.03              | 2,378.20              | 5.26             | 0.00          | 62.36                 | 459.50                             | 877.32           | 990.48                 | 985.22                  | 5.26                      | 188.154           |                    |
| 2,500.00                                                      | 2,500.00              | 2,479.75              | 2,478.87              | 5.49             | 0.00          | 62.20                 | 462.60                             | 877.32           | 991.91                 | 986.42                  | 5.49                      | 180.710           |                    |
| 2,600.00                                                      | 2,600.00              | 2,579.70              | 2,578.77              | 5.71             | 0.00          | 62.04                 | 465.65                             | 877.32           | 993.34                 | 987.63                  | 5.71                      | 173.851           |                    |
| 2,700.00                                                      | 2,700.00              | 2,680.59              | 2,679.62              | 5.94             | 0.00          | 61.89                 | 468.84                             | 877.32           | 994.74                 | 988.80                  | 5.94                      | 167.506           |                    |
| 2,800.00                                                      | 2,800.00              | 2,781.67              | 2,780.66              | 6.16             | 0.00          | 61.75                 | 471.41                             | 877.32           | 996.03                 | 989.87                  | 6.16                      | 161.607           |                    |
| 2,900.00                                                      | 2,900.00              | 2,882.91              | 2,881.87              | 6.39             | 0.00          | 61.62                 | 473.92                             | 877.32           | 997.21                 | 990.82                  | 6.39                      | 156.105           |                    |
| 3,000.00                                                      | 3,000.00              | 2,984.15              | 2,983.09              | 6.61             | 0.00          | 61.51                 | 476.17                             | 877.32           | 998.26                 | 991.65                  | 6.61                      | 150.959           |                    |
| 3,100.00                                                      | 3,100.00              | 3,085.41              | 3,084.32              | 6.84             | 0.00          | 61.41                 | 478.14                             | 877.32           | 999.19                 | 992.36                  | 6.84                      | 146.133           |                    |
| 3,200.00                                                      | 3,200.00              | 3,186.67              | 3,185.57              | 7.06             | 0.00          | 61.32                 | 479.84                             | 877.32           | 1,000.00               | 992.94                  | 7.06                      | 141.596           |                    |
| 3,300.00                                                      | 3,300.00              | 3,287.91              | 3,286.80              | 7.29             | 0.00          | 61.25                 | 481.27                             | 877.32           | 1,000.88               | 993.39                  | 7.29                      | 137.322           |                    |
| 3,400.00                                                      | 3,400.00              | 3,388.85              | 3,387.73              | 7.51             | 0.00          | 61.19                 | 482.47                             | 877.32           | 1,001.25               | 993.74                  | 7.51                      | 133.289           |                    |
| 3,500.00                                                      | 3,500.00              | 3,489.79              | 3,488.67              | 7.74             | 0.00          | 61.14                 | 483.48                             | 877.32           | 1,001.73               | 994.00                  | 7.74                      | 129.479           |                    |
| 3,600.00                                                      | 3,600.00              | 3,590.73              | 3,589.61              | 7.96             | 0.00          | 61.10                 | 484.28                             | 877.32           | 1,002.12               | 994.16                  | 7.96                      | 125.872           |                    |
| 3,700.00                                                      | 3,700.00              | 3,691.68              | 3,690.55              | 8.19             | 0.00          | 61.07                 | 484.89                             | 877.32           | 1,002.41               | 994.22                  | 8.19                      | 122.451           |                    |
| 3,800.00                                                      | 3,800.00              | 3,791.11              | 3,789.98              | 8.41             | 0.00          | 61.05                 | 485.40                             | 877.32           | 1,002.65               | 994.24                  | 8.41                      | 119.208           |                    |
| 3,900.00                                                      | 3,900.00              | 3,889.72              | 3,888.59              | 8.64             | 0.00          | 61.01                 | 486.15                             | 877.32           | 1,003.02               | 994.39                  | 8.64                      | 116.148           |                    |
| 4,000.00                                                      | 4,000.00              | 3,988.33              | 3,987.20              | 8.86             | 0.00          | 60.96                 | 487.18                             | 877.32           | 1,003.53               | 994.67                  | 8.86                      | 113.260           |                    |
| 4,100.00                                                      | 4,100.00              | 4,087.55              | 4,086.41              | 9.09             | 0.00          | 60.89                 | 488.47                             | 877.32           | 1,004.16               | 995.08                  | 9.09                      | 110.527           |                    |
| 4,200.00                                                      | 4,200.00              | 4,187.20              | 4,186.05              | 9.31             | 0.00          | 60.82                 | 489.85                             | 877.32           | 1,004.84               | 995.53                  | 9.31                      | 107.931           |                    |
| 4,300.00                                                      | 4,300.00              | 4,286.85              | 4,285.69              | 9.53             | 0.00          | 60.75                 | 491.30                             | 877.32           | 1,005.55               | 996.01                  | 9.53                      | 105.461           |                    |
| 4,400.00                                                      | 4,400.00              | 4,386.50              | 4,385.33              | 9.76             | 0.00          | 60.68                 | 492.82                             | 877.32           | 1,006.29               | 996.53                  | 9.76                      | 103.109           |                    |
| 4,500.00                                                      | 4,500.00              | 4,486.15              | 4,484.96              | 9.98             | 0.00          | 60.60                 | 494.40                             | 877.32           | 1,007.07               | 997.09                  | 9.98                      | 100.866           |                    |
| 4,600.00                                                      | 4,600.00              | 4,585.79              | 4,584.59              | 10.21            | 0.00          | 60.52                 | 496.06                             | 877.32           | 1,007.89               | 997.68                  | 10.21                     | 98.725            |                    |
| 4,700.00                                                      | 4,700.00              | 4,685.14              | 4,683.92              | 10.43            | 0.00          | 60.43                 | 497.78                             | 877.32           | 1,008.75               | 998.31                  | 10.43                     | 96.680            |                    |
| 4,800.00                                                      | 4,800.00              | 4,783.71              | 4,782.47              | 10.66            | 0.00          | 60.33                 | 499.72                             | 877.32           | 1,009.72               | 999.06                  | 10.66                     | 94.733            |                    |
| 4,900.00                                                      | 4,900.00              | 4,882.26              | 4,881.00              | 10.88            | 0.00          | 60.23                 | 501.93                             | 877.32           | 1,010.83               | 999.95                  | 10.88                     | 92.879            |                    |
| 5,000.00                                                      | 5,000.00              | 4,980.80              | 4,979.51              | 11.11            | 0.00          | 60.10                 | 504.43                             | 877.32           | 1,012.09               | 1,000.98                | 11.11                     | 91.113            |                    |
| 5,100.00                                                      | 5,100.00              | 5,079.33              | 5,078.00              | 11.33            | 0.00          | 59.97                 | 507.20                             | 877.32           | 1,013.50               | 1,002.17                | 11.33                     | 89.430            |                    |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



A Schlumberger Company

# Schlumberger Anticollision Report



|                     |                           |                              |                            |
|---------------------|---------------------------|------------------------------|----------------------------|
| Company:            | Anschutz Oil Company, LLC | Local Co-ordinate Reference: | Well Regina Com 25-2-14-15 |
| Project:            | Rio Arriba, NM            | TVD Reference:               | KB 16 @ 7322.00usft (TBD)  |
| Reference Site:     | Sec.14 -T25N-R02W         | MD Reference:                | KB 16 @ 7322.00usft (TBD)  |
| Site Error:         | 0.00 usft                 | North Reference:             | Grid                       |
| Reference Well:     | Regina Com 25-2-14-15     | Survey Calculation Method:   | Minimum Curvature          |
| Well Error:         | 0.00 usft                 | Output errors are at:        | 2.00 sigma                 |
| Reference Wellbore: | Original Hole             | Database:                    | EDM 5000.1 Single User Db  |
| Reference Design:   | Rev 1                     | Offset TVD Reference:        | Offset Datum               |

| Offset Design      Sec.14 -T25N-R02W- Banshee (Offset) - OH Offset - OH Offset |                             |                             |                             |                     |                  |                             |                        |                |                              |                               |                                 |                      | Offset Site Error:      0.00 usft |  |
|--------------------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|------------------------|----------------|------------------------------|-------------------------------|---------------------------------|----------------------|-----------------------------------|--|
| Survey Program:      375-                                                      |                             |                             |                             |                     |                  |                             |                        |                |                              |                               |                                 |                      | Offset Well Error:      0.00 usft |  |
| Reference                                                                      |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Offset Wellbore Centre |                | Distance                     |                               | Minimum<br>Separation<br>(usft) | Separation<br>Factor | Warning                           |  |
| Measured<br>Depth<br>(usft)                                                    | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | +N-S<br>(usft)         | +E-W<br>(usft) | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) |                                 |                      |                                   |  |
| 5,200.00                                                                       | 5,200.00                    | 5,178.50                    | 5,177.12                    | 11.56               | 0.00             | 59.82                       | 510.23                 | 877.32         | 1,015.03                     | 1,003.47                      | 11.56                           | 87.823               |                                   |  |
| 5,300.00                                                                       | 5,300.00                    | 5,278.00                    | 5,276.57                    | 11.78               | 0.00             | 59.67                       | 513.37                 | 877.32         | 1,016.62                     | 1,004.84                      | 11.78                           | 86.283               |                                   |  |
| 5,400.00                                                                       | 5,400.00                    | 5,377.50                    | 5,378.02                    | 12.01               | 0.00             | 59.51                       | 516.60                 | 877.32         | 1,018.26                     | 1,006.28                      | 12.01                           | 84.804               |                                   |  |
| 5,500.00                                                                       | 5,500.00                    | 5,476.99                    | 5,475.46                    | 12.23               | 0.00             | 59.35                       | 519.91                 | 877.32         | 1,019.96                     | 1,007.73                      | 12.23                           | 83.385               |                                   |  |
| 5,600.00                                                                       | 5,600.00                    | 5,576.48                    | 5,574.89                    | 12.46               | 0.00             | 59.18                       | 523.31                 | 877.32         | 1,021.70                     | 1,009.25                      | 12.46                           | 82.020               |                                   |  |
| 5,700.00                                                                       | 5,700.00                    | 5,677.46                    | 5,675.81                    | 12.68               | 0.00             | 59.02                       | 526.75                 | 877.32         | 1,023.46                     | 1,010.77                      | 12.68                           | 80.705               |                                   |  |
| 5,800.00                                                                       | 5,800.00                    | 5,779.29                    | 5,777.59                    | 12.91               | 0.00             | 58.87                       | 529.89                 | 877.32         | 1,025.05                     | 1,012.14                      | 12.91                           | 79.422               |                                   |  |
| 5,900.00                                                                       | 5,900.00                    | 5,881.15                    | 5,879.41                    | 13.13               | 0.00             | 58.74                       | 532.67                 | 877.32         | 1,026.46                     | 1,013.33                      | 13.13                           | 78.171               |                                   |  |
| 6,000.00                                                                       | 6,000.00                    | 5,983.02                    | 5,981.25                    | 13.36               | 0.00             | 58.62                       | 535.09                 | 877.32         | 1,027.70                     | 1,014.34                      | 13.36                           | 76.947               |                                   |  |
| 6,100.00                                                                       | 6,100.00                    | 6,084.90                    | 6,083.12                    | 13.58               | 0.00             | 58.52                       | 537.15                 | 877.32         | 1,028.75                     | 1,015.17                      | 13.58                           | 75.751               |                                   |  |
| 6,200.00                                                                       | 6,200.00                    | 6,185.40                    | 6,183.59                    | 13.81               | 0.00             | 58.44                       | 538.91                 | 877.32         | 1,029.67                     | 1,015.86                      | 13.81                           | 74.585               |                                   |  |
| 6,300.00                                                                       | 6,299.99                    | 6,285.38                    | 6,283.56                    | 14.03               | 0.00             | 114.68                      | 540.68                 | 877.32         | 1,030.79                     | 1,016.77                      | 14.03                           | 73.487               |                                   |  |
| 6,400.00                                                                       | 6,399.10                    | 6,384.59                    | 6,382.76                    | 14.25               | 0.00             | 114.68                      | 542.39                 | 877.32         | 1,036.95                     | 1,022.75                      | 14.20                           | 73.033               |                                   |  |
| 6,500.00                                                                       | 6,494.74                    | 6,480.50                    | 6,478.65                    | 14.48               | 0.00             | 114.81                      | 544.06                 | 877.32         | 1,050.38                     | 1,036.06                      | 14.33                           | 73.320               |                                   |  |
| 6,600.00                                                                       | 6,584.26                    | 6,570.30                    | 6,568.44                    | 14.76               | 0.00             | 114.84                      | 545.83                 | 877.32         | 1,071.69                     | 1,057.24                      | 14.45                           | 74.184               |                                   |  |
| 6,700.00                                                                       | 6,665.13                    | 6,651.07                    | 6,649.20                    | 15.13               | 0.00             | 114.41                      | 547.12                 | 877.32         | 1,101.62                     | 1,086.98                      | 14.64                           | 75.248               |                                   |  |
| 6,800.00                                                                       | 6,735.12                    | 6,721.26                    | 6,719.37                    | 15.69               | 0.00             | 113.45                      | 548.51                 | 877.32         | 1,140.76                     | 1,125.73                      | 15.03                           | 75.921               |                                   |  |
| 6,900.00                                                                       | 6,794.27                    | 6,780.79                    | 6,778.88                    | 16.49               | 0.00             | 118.50                      | 549.75                 | 877.32         | 1,193.22                     | 1,177.90                      | 15.32                           | 77.866               |                                   |  |
| 7,000.00                                                                       | 6,842.69                    | 6,829.58                    | 6,827.67                    | 17.59               | 0.00             | 120.85                      | 550.82                 | 877.32         | 1,260.87                     | 1,244.96                      | 15.90                           | 79.288               |                                   |  |
| 7,100.00                                                                       | 6,879.03                    | 6,866.25                    | 6,864.32                    | 18.97               | 0.00             | 119.98                      | 551.65                 | 877.32         | 1,340.92                     | 1,323.95                      | 16.97                           | 79.014               |                                   |  |
| 7,200.00                                                                       | 6,902.28                    | 6,889.73                    | 6,887.80                    | 20.59               | 0.00             | 113.77                      | 552.19                 | 877.32         | 1,430.24                     | 1,411.38                      | 18.87                           | 75.813               |                                   |  |
| 7,300.00                                                                       | 6,911.78                    | 6,899.35                    | 6,897.42                    | 22.40               | 0.00             | 94.79                       | 552.42                 | 877.32         | 1,525.58                     | 1,503.85                      | 21.70                           | 70.295               |                                   |  |
| 7,400.00                                                                       | 6,911.67                    | 6,899.26                    | 6,897.33                    | 24.32               | 0.00             | 87.55                       | 552.42                 | 877.32         | 1,623.32                     | 1,599.62                      | 23.70                           | 68.490               |                                   |  |
| 7,500.00                                                                       | 6,911.25                    | 6,898.87                    | 6,896.94                    | 26.40               | 0.00             | 87.48                       | 552.41                 | 877.32         | 1,721.38                     | 1,695.55                      | 25.83                           | 66.634               |                                   |  |
| 7,600.00                                                                       | 6,910.83                    | 6,898.48                    | 6,896.54                    | 28.60               | 0.00             | 87.41                       | 552.40                 | 877.32         | 1,819.65                     | 1,791.58                      | 28.08                           | 64.813               |                                   |  |
| 7,700.00                                                                       | 6,910.41                    | 6,898.08                    | 6,896.15                    | 30.89               | 0.00             | 87.35                       | 552.39                 | 877.32         | 1,918.10                     | 1,887.70                      | 30.40                           | 63.088               |                                   |  |
| 7,800.00                                                                       | 6,909.99                    | 6,897.69                    | 6,895.76                    | 33.25               | 0.00             | 87.28                       | 552.38                 | 877.32         | 2,016.70                     | 1,983.91                      | 32.80                           | 61.486               |                                   |  |
| 7,900.00                                                                       | 6,909.57                    | 6,897.30                    | 6,895.36                    | 35.67               | 0.00             | 87.21                       | 552.37                 | 877.32         | 2,115.44                     | 2,080.19                      | 35.25                           | 60.013               |                                   |  |
| 8,000.00                                                                       | 6,909.16                    | 6,896.90                    | 6,894.97                    | 38.14               | 0.00             | 87.14                       | 552.36                 | 877.32         | 2,214.29                     | 2,178.54                      | 37.74                           | 58.668               |                                   |  |
| 8,100.00                                                                       | 6,908.74                    | 6,896.51                    | 6,894.58                    | 40.65               | 0.00             | 87.07                       | 552.35                 | 877.32         | 2,313.23                     | 2,272.96                      | 40.27                           | 57.441               |                                   |  |
| 8,200.00                                                                       | 6,908.32                    | 6,896.12                    | 6,894.19                    | 43.19               | 0.00             | 87.00                       | 552.34                 | 877.32         | 2,412.27                     | 2,369.44                      | 42.83                           | 56.324               |                                   |  |
| 8,300.00                                                                       | 6,907.90                    | 6,895.73                    | 6,893.79                    | 45.76               | 0.00             | 86.94                       | 552.33                 | 877.32         | 2,511.37                     | 2,465.96                      | 45.41                           | 55.305               |                                   |  |
| 8,400.00                                                                       | 6,907.48                    | 6,895.33                    | 6,893.40                    | 48.35               | 0.00             | 86.87                       | 552.32                 | 877.32         | 2,610.55                     | 2,562.54                      | 48.01                           | 54.374               |                                   |  |
| 8,500.00                                                                       | 6,907.06                    | 6,894.94                    | 6,893.01                    | 50.96               | 0.00             | 86.80                       | 552.31                 | 877.32         | 2,709.79                     | 2,659.16                      | 50.63                           | 53.522               |                                   |  |
| 8,600.00                                                                       | 6,906.65                    | 6,894.55                    | 6,892.61                    | 53.58               | 0.00             | 86.73                       | 552.30                 | 877.32         | 2,809.08                     | 2,755.82                      | 53.26                           | 52.741               |                                   |  |
| 8,700.00                                                                       | 6,906.23                    | 6,894.15                    | 6,892.22                    | 56.22               | 0.00             | 86.66                       | 552.30                 | 877.32         | 2,908.42                     | 2,852.52                      | 55.91                           | 52.023               |                                   |  |
| 8,800.00                                                                       | 6,905.81                    | 6,893.76                    | 6,891.83                    | 58.87               | 0.00             | 86.59                       | 552.29                 | 877.32         | 3,007.81                     | 2,949.24                      | 58.56                           | 51.361               |                                   |  |
| 8,900.00                                                                       | 6,905.39                    | 6,893.37                    | 6,891.44                    | 61.53               | 0.00             | 86.53                       | 552.28                 | 877.32         | 3,107.23                     | 3,046.00                      | 61.23                           | 50.750               |                                   |  |
| 9,000.00                                                                       | 6,904.98                    | 6,892.98                    | 6,891.05                    | 64.20               | 0.00             | 86.46                       | 552.27                 | 877.32         | 3,206.69                     | 3,142.79                      | 63.90                           | 50.184               |                                   |  |
| 9,100.00                                                                       | 6,904.56                    | 6,892.58                    | 6,890.65                    | 66.88               | 0.00             | 86.39                       | 552.26                 | 877.32         | 3,306.18                     | 3,239.60                      | 66.58                           | 49.659               |                                   |  |
| 9,200.00                                                                       | 6,904.14                    | 6,892.19                    | 6,890.26                    | 69.57               | 0.00             | 86.32                       | 552.25                 | 877.32         | 3,405.70                     | 3,336.44                      | 69.26                           | 49.171               |                                   |  |
| 9,300.00                                                                       | 6,903.72                    | 6,891.80                    | 6,889.87                    | 72.26               | 0.00             | 86.25                       | 552.24                 | 877.32         | 3,505.25                     | 3,433.30                      | 71.95                           | 48.716               |                                   |  |
| 9,400.00                                                                       | 6,903.31                    | 6,891.41                    | 6,889.48                    | 74.96               | 0.00             | 86.19                       | 552.23                 | 877.32         | 3,604.83                     | 3,530.18                      | 74.65                           | 48.292               |                                   |  |
| 9,500.00                                                                       | 6,902.89                    | 6,891.02                    | 6,889.08                    | 77.66               | 0.00             | 86.12                       | 552.22                 | 877.32         | 3,704.42                     | 3,627.08                      | 77.35                           | 47.894               |                                   |  |
| 9,600.00                                                                       | 6,902.47                    | 6,890.62                    | 6,888.69                    | 80.37               | 0.00             | 86.05                       | 552.21                 | 877.32         | 3,804.04                     | 3,723.99                      | 80.05                           | 47.522               |                                   |  |
| 9,700.00                                                                       | 6,902.05                    | 6,890.23                    | 6,888.30                    | 83.08               | 0.00             | 85.98                       | 552.20                 | 877.32         | 3,903.68                     | 3,820.92                      | 82.75                           | 47.172               |                                   |  |
| 9,800.00                                                                       | 6,901.64                    | 6,889.84                    | 6,887.91                    | 85.79               | 0.00             | 85.91                       | 552.19                 | 877.32         | 4,003.33                     | 3,917.87                      | 85.46                           | 46.843               |                                   |  |
| 9,900.00                                                                       | 6,901.22                    | 6,889.45                    | 6,887.52                    | 88.51               | 0.00             | 85.85                       | 552.19                 | 877.32         | 4,103.01                     | 4,014.83                      | 88.17                           | 46.533               |                                   |  |
| 10,000.00                                                                      | 6,900.80                    | 6,889.06                    | 6,887.13                    | 91.23               | 0.00             | 85.78                       | 552.18                 | 877.32         | 4,202.69                     | 4,111.81                      | 90.89                           | 46.241               |                                   |  |
| 10,100.00                                                                      | 6,900.39                    | 6,888.66                    | 6,886.73                    | 93.96               | 0.00             | 85.71                       | 552.17                 | 877.32         | 4,302.39                     | 4,208.79                      | 93.60                           | 45.965               |                                   |  |
| 10,200.00                                                                      | 6,899.97                    | 6,888.27                    | 6,886.34                    | 96.68               | 0.00             | 85.64                       | 552.16                 | 877.32         | 4,402.11                     | 4,305.79                      | 96.32                           | 45.703               |                                   |  |
| 10,300.00                                                                      | 6,899.55                    | 6,887.88                    | 6,885.95                    | 99.41               | 0.00             | 85.57                       | 552.15                 | 877.32         | 4,501.84                     | 4,402.80                      | 99.04                           | 45.456               |                                   |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



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# Schlumberger Anticollision Report



|                     |                           |                              |                            |
|---------------------|---------------------------|------------------------------|----------------------------|
| Company:            | Anschutz Oil Company, LLC | Local Co-ordinate Reference: | Well Regina Com 25-2-14-15 |
| Project:            | Rio Arriba, NM            | TVD Reference:               | KB 16 @ 7322.00usft (TBD)  |
| Reference Site:     | Sec. 14 - T25N-R02W       | MD Reference:                | KB 16 @ 7322.00usft (TBD)  |
| Site Error:         | 0.00 usft                 | North Reference:             | Grid                       |
| Reference Well:     | Regina Com 25-2-14-15     | Survey Calculation Method:   | Minimum Curvature          |
| Well Error:         | 0.00 usft                 | Output errors are at:        | 2.00 sigma                 |
| Reference Wellbore: | Original Hole             | Database:                    | EDM 5000.1 Single User Db  |
| Reference Design:   | Rev 1                     | Offset TVD Reference:        | Offset Datum               |

| Sec. 14 - T25N-R02W - Banshee (Offset) - OH Offset - OH Offset |                       |                       |                       |                  |               |                       |                                    |             |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|----------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------------------|-------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 375-                                           |                       |                       |                       |                  |               |                       |                                    |             |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                                                      |                       | Offset                |                       | Semi Major Axis  |               |                       |                                    | Distance    |                        |                         |                           |                   |                    |           |
| Measured Depth (usft)                                          | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N-S (usft) | +E-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning            |           |
| 10,400.00                                                      | 6,899.14              | 6,887.49              | 6,885.56              | 102.14           | 0.00          | 85.51                 | 552.14                             | 877.32      | 4,601.58               | 4,499.82                | 101.76                    | 45.221            |                    |           |
| 10,500.00                                                      | 6,898.72              | 6,887.10              | 6,885.17              | 104.88           | 0.00          | 85.44                 | 552.13                             | 877.32      | 4,701.33               | 4,596.85                | 104.48                    | 44.998            |                    |           |
| 10,600.00                                                      | 6,898.30              | 6,886.71              | 6,884.78              | 107.61           | 0.00          | 85.37                 | 552.12                             | 877.32      | 4,801.09               | 4,693.89                | 107.20                    | 44.786            |                    |           |
| 10,700.00                                                      | 6,897.89              | 6,886.32              | 6,884.39              | 110.35           | 0.00          | 85.30                 | 552.11                             | 877.32      | 4,900.86               | 4,790.94                | 109.92                    | 44.584            |                    |           |
| 10,800.00                                                      | 6,897.47              | 6,885.92              | 6,883.99              | 113.09           | 0.00          | 85.24                 | 552.10                             | 877.32      | 5,000.64               | 4,887.99                | 112.65                    | 44.392            |                    |           |
| 10,900.00                                                      | 6,897.05              | 6,885.53              | 6,883.60              | 115.83           | 0.00          | 85.17                 | 552.09                             | 877.32      | 5,100.43               | 4,985.06                | 115.37                    | 44.208            |                    |           |
| 11,000.00                                                      | 6,896.64              | 6,885.14              | 6,883.21              | 118.57           | 0.00          | 85.10                 | 552.08                             | 877.32      | 5,200.23               | 5,082.13                | 118.10                    | 44.033            |                    |           |
| 11,100.00                                                      | 6,896.22              | 6,884.75              | 6,882.82              | 121.31           | 0.00          | 85.03                 | 552.08                             | 877.32      | 5,300.03               | 5,179.21                | 120.82                    | 43.866            |                    |           |
| 11,200.00                                                      | 6,895.81              | 6,884.36              | 6,882.43              | 124.06           | 0.00          | 84.97                 | 552.07                             | 877.32      | 5,399.84               | 5,276.29                | 123.55                    | 43.706            |                    |           |
| 11,300.00                                                      | 6,895.39              | 6,883.97              | 6,882.04              | 126.80           | 0.00          | 84.90                 | 552.06                             | 877.32      | 5,499.66               | 5,373.39                | 126.28                    | 43.553            |                    |           |
| 11,400.00                                                      | 6,894.97              | 6,883.58              | 6,881.65              | 129.55           | 0.00          | 84.83                 | 552.05                             | 877.32      | 5,599.49               | 5,470.48                | 129.00                    | 43.406            |                    |           |
| 11,500.00                                                      | 6,894.56              | 6,883.19              | 6,881.26              | 132.30           | 0.00          | 84.76                 | 552.04                             | 877.32      | 5,699.32               | 5,567.59                | 131.73                    | 43.265            |                    |           |
| 11,600.00                                                      | 6,894.14              | 6,882.80              | 6,880.87              | 135.04           | 0.00          | 84.70                 | 552.03                             | 877.32      | 5,799.15               | 5,664.70                | 134.46                    | 43.130            |                    |           |
| 11,700.00                                                      | 6,893.73              | 6,882.40              | 6,880.48              | 137.79           | 0.00          | 84.63                 | 552.02                             | 877.32      | 5,899.00               | 5,761.81                | 137.18                    | 43.001            |                    |           |
| 11,800.00                                                      | 6,893.31              | 6,882.01              | 6,880.09              | 140.54           | 0.00          | 84.56                 | 552.01                             | 877.32      | 5,998.84               | 5,858.93                | 139.91                    | 42.876            |                    |           |
| 11,900.00                                                      | 6,892.90              | 6,881.62              | 6,879.69              | 143.29           | 0.00          | 84.50                 | 552.00                             | 877.32      | 6,098.70               | 5,956.06                | 142.64                    | 42.756            |                    |           |
| 12,000.00                                                      | 6,892.48              | 6,881.23              | 6,879.30              | 146.04           | 0.00          | 84.43                 | 551.99                             | 877.32      | 6,198.55               | 6,053.19                | 145.37                    | 42.641            |                    |           |
| 12,100.00                                                      | 6,892.06              | 6,880.84              | 6,878.91              | 148.80           | 0.00          | 84.38                 | 551.98                             | 877.32      | 6,298.42               | 6,150.32                | 148.09                    | 42.530            |                    |           |
| 12,200.00                                                      | 6,891.65              | 6,880.45              | 6,878.52              | 151.55           | 0.00          | 84.29                 | 551.98                             | 877.32      | 6,398.28               | 6,247.48                | 150.82                    | 42.424            |                    |           |
| 12,300.00                                                      | 6,891.23              | 6,880.06              | 6,878.13              | 154.30           | 0.00          | 84.23                 | 551.97                             | 877.32      | 6,498.15               | 6,344.61                | 153.54                    | 42.321            |                    |           |
| 12,400.00                                                      | 6,890.82              | 6,879.67              | 6,877.74              | 157.05           | 0.00          | 84.16                 | 551.96                             | 877.32      | 6,598.03               | 6,441.75                | 156.27                    | 42.222            |                    |           |
| 12,500.00                                                      | 6,890.40              | 6,879.28              | 6,877.35              | 159.81           | 0.00          | 84.09                 | 551.95                             | 877.32      | 6,697.90               | 6,538.91                | 159.00                    | 42.126            |                    |           |
| 12,600.00                                                      | 6,889.99              | 6,878.89              | 6,876.96              | 162.56           | 0.00          | 84.03                 | 551.94                             | 877.32      | 6,797.78               | 6,636.06                | 161.72                    | 42.034            |                    |           |
| 12,700.00                                                      | 6,889.57              | 6,878.50              | 6,876.57              | 165.32           | 0.00          | 83.96                 | 551.93                             | 877.32      | 6,897.67               | 6,733.22                | 164.45                    | 41.944            |                    |           |
| 12,800.00                                                      | 6,889.16              | 6,878.11              | 6,876.18              | 168.07           | 0.00          | 83.89                 | 551.92                             | 877.32      | 6,997.56               | 6,830.39                | 167.17                    | 41.858            |                    |           |
| 12,900.00                                                      | 6,888.74              | 6,877.72              | 6,875.79              | 170.83           | 0.00          | 83.83                 | 551.91                             | 877.32      | 7,097.45               | 6,927.55                | 169.90                    | 41.775            |                    |           |
| 13,000.00                                                      | 6,888.33              | 6,877.33              | 6,875.40              | 173.59           | 0.00          | 83.76                 | 551.90                             | 877.32      | 7,197.34               | 7,024.72                | 172.62                    | 41.695            |                    |           |
| 13,100.00                                                      | 6,887.91              | 6,876.94              | 6,875.01              | 176.34           | 0.00          | 83.69                 | 551.89                             | 877.32      | 7,297.24               | 7,121.90                | 175.34                    | 41.617            |                    |           |
| 13,200.00                                                      | 6,887.50              | 6,876.55              | 6,874.62              | 179.10           | 0.00          | 83.63                 | 551.89                             | 877.32      | 7,397.14               | 7,219.07                | 178.07                    | 41.541            |                    |           |
| 13,300.00                                                      | 6,887.09              | 6,876.16              | 6,874.23              | 181.86           | 0.00          | 83.58                 | 551.88                             | 877.32      | 7,497.04               | 7,316.25                | 180.79                    | 41.468            |                    |           |
| 13,400.00                                                      | 6,886.67              | 6,875.77              | 6,873.84              | 184.62           | 0.00          | 83.49                 | 551.87                             | 877.32      | 7,596.95               | 7,413.44                | 183.51                    | 41.398            |                    |           |
| 13,500.00                                                      | 6,886.26              | 6,875.38              | 6,873.45              | 187.38           | 0.00          | 83.43                 | 551.86                             | 877.32      | 7,696.85               | 7,510.62                | 186.23                    | 41.329            |                    |           |
| 13,600.00                                                      | 6,885.84              | 6,874.99              | 6,873.06              | 190.13           | 0.00          | 83.38                 | 551.85                             | 877.32      | 7,796.76               | 7,607.81                | 188.95                    | 41.263            |                    |           |
| 13,700.00                                                      | 6,885.43              | 6,874.60              | 6,872.68              | 192.89           | 0.00          | 83.29                 | 551.84                             | 877.32      | 7,896.68               | 7,705.00                | 191.67                    | 41.199            |                    |           |
| 13,800.00                                                      | 6,885.01              | 6,874.21              | 6,872.29              | 195.65           | 0.00          | 83.23                 | 551.83                             | 877.32      | 7,996.59               | 7,802.20                | 194.39                    | 41.136            |                    |           |
| 13,900.00                                                      | 6,884.60              | 6,873.82              | 6,871.90              | 198.41           | 0.00          | 83.16                 | 551.82                             | 877.32      | 8,096.51               | 7,899.40                | 197.11                    | 41.076            |                    |           |
| 14,000.00                                                      | 6,884.19              | 6,873.43              | 6,871.51              | 201.17           | 0.00          | 83.09                 | 551.81                             | 877.32      | 8,196.43               | 7,998.60                | 199.83                    | 41.017            |                    |           |
| 14,100.00                                                      | 6,883.77              | 6,873.04              | 6,871.12              | 203.93           | 0.00          | 83.03                 | 551.80                             | 877.32      | 8,296.35               | 8,093.80                | 202.55                    | 40.960            |                    |           |
| 14,200.00                                                      | 6,883.36              | 6,872.65              | 6,870.73              | 206.69           | 0.00          | 82.96                 | 551.80                             | 877.32      | 8,396.27               | 8,191.01                | 205.26                    | 40.905            |                    |           |
| 14,300.00                                                      | 6,882.94              | 6,872.27              | 6,870.34              | 209.45           | 0.00          | 82.89                 | 551.79                             | 877.32      | 8,496.19               | 8,288.21                | 207.98                    | 40.851            |                    |           |
| 14,400.00                                                      | 6,882.53              | 6,871.88              | 6,869.95              | 212.21           | 0.00          | 82.83                 | 551.78                             | 877.32      | 8,596.12               | 8,385.42                | 210.69                    | 40.799            |                    |           |
| 14,500.00                                                      | 6,882.12              | 6,871.49              | 6,869.56              | 214.98           | 0.00          | 82.76                 | 551.77                             | 877.32      | 8,696.05               | 8,482.64                | 213.41                    | 40.749 SF         |                    |           |
| 14,528.31                                                      | 6,882.00              | 6,871.38              | 6,869.45              | 215.48           | 0.00          | 82.74                 | 551.77                             | 877.32      | 8,724.34               | 8,510.44                | 213.90                    | 40.787            |                    |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

|                            |                           |                                     |                            |
|----------------------------|---------------------------|-------------------------------------|----------------------------|
| <b>Company:</b>            | Anschutz Oil Company, LLC | <b>Local Co-ordinate Reference:</b> | Well Regina Com 25-2-14-15 |
| <b>Project:</b>            | Rio Arriba, NM            | <b>TVD Reference:</b>               | KB 16 @ 7322.00usft (TBD)  |
| <b>Reference Site:</b>     | Sec.14 - T25N-R02W        | <b>MD Reference:</b>                | KB 16 @ 7322.00usft (TBD)  |
| <b>Site Error:</b>         | 0.00 usft                 | <b>North Reference:</b>             | Grid                       |
| <b>Reference Well:</b>     | Regina Com 25-2-14-15     | <b>Survey Calculation Method:</b>   | Minimum Curvature          |
| <b>Well Error:</b>         | 0.00 usft                 | <b>Output errors are at:</b>        | 2.00 sigma                 |
| <b>Reference Wellbore:</b> | Original Hole             | <b>Database:</b>                    | EDM 5000.1 Single User Db  |
| <b>Reference Design:</b>   | Rev 1                     | <b>Offset TVD Reference:</b>        | Offset Datum               |

Reference Depths are relative to KB 16 @ 7322.00usft (TBD)

Offset Depths are relative to Offset Datum

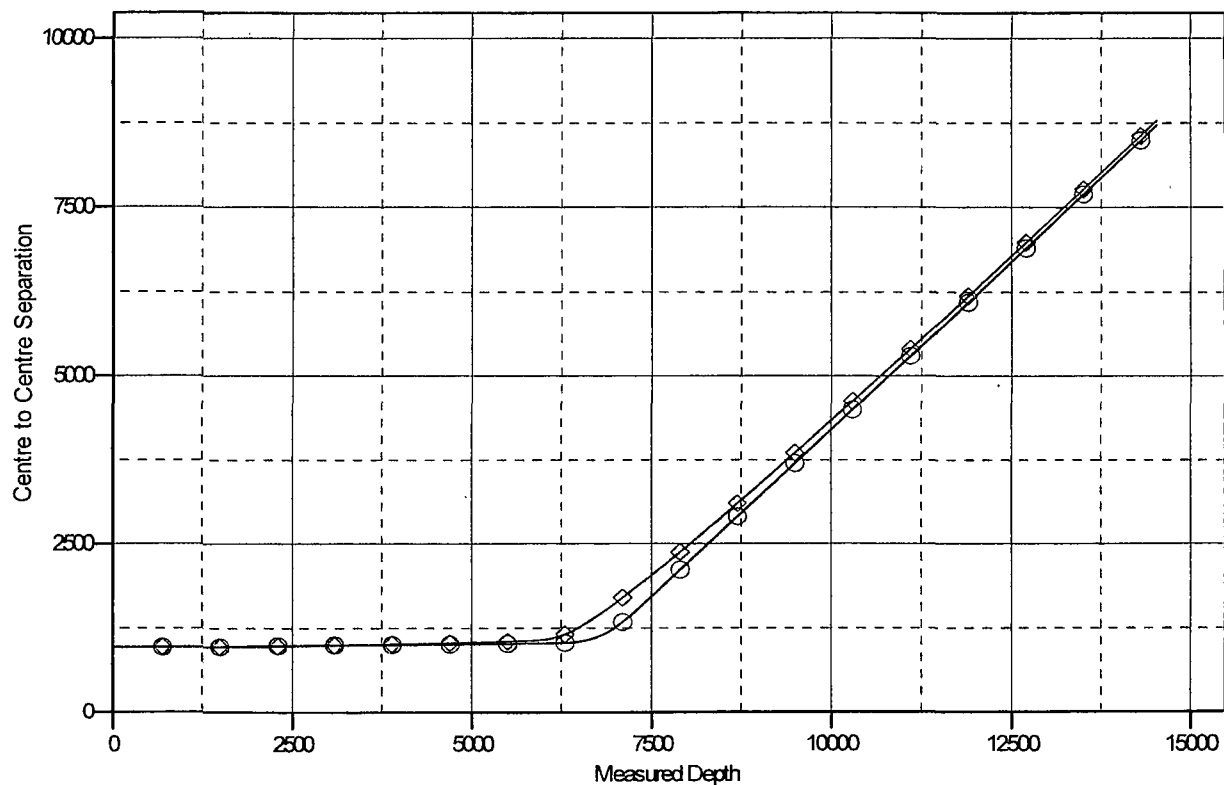
Central Meridian is 106° 15' 0.00 W

Coordinates are relative to: Regina Com 25-2-14-15

Coordinate System is US State Plane 1927 (Exact solution), New Mexico Central

Grid Convergence at Surface is: -0.46°

## Ladder Plot



## LEGEND

Badger Com 14, OH (Offset), OH (Offset) V0
 Banshee (Offset), OH Offset, OH Offset V0



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# Schlumberger Anticollision Report



|                     |                           |                              |                            |
|---------------------|---------------------------|------------------------------|----------------------------|
| Company:            | Anschutz Oil Company, LLC | Local Co-ordinate Reference: | Well Regina Com 25-2-14-15 |
| Project:            | Rio Arriba, NM            | TVD Reference:               | KB 16 @ 7322.00usft (TBD)  |
| Reference Site:     | Sec 14 -T25N-R02W         | MD Reference:                | KB 16 @ 7322.00usft (TBD)  |
| Site Error:         | 0.00 usft                 | North Reference:             | Grid                       |
| Reference Well:     | Regina Com 25-2-14-15     | Survey Calculation Method:   | Minimum Curvature          |
| Well Error:         | 0.00 usft                 | Output errors are at         | 2.00 sigma                 |
| Reference Wellbore: | Original Hole             | Database:                    | EDM 5000.1 Single User Db  |
| Reference Design:   | Rev 1                     | Offset TVD Reference:        | Offset Datum               |

Reference Depths are relative to KB 16 @ 7322.00usft (TBD)

Offset Depths are relative to Offset Datum

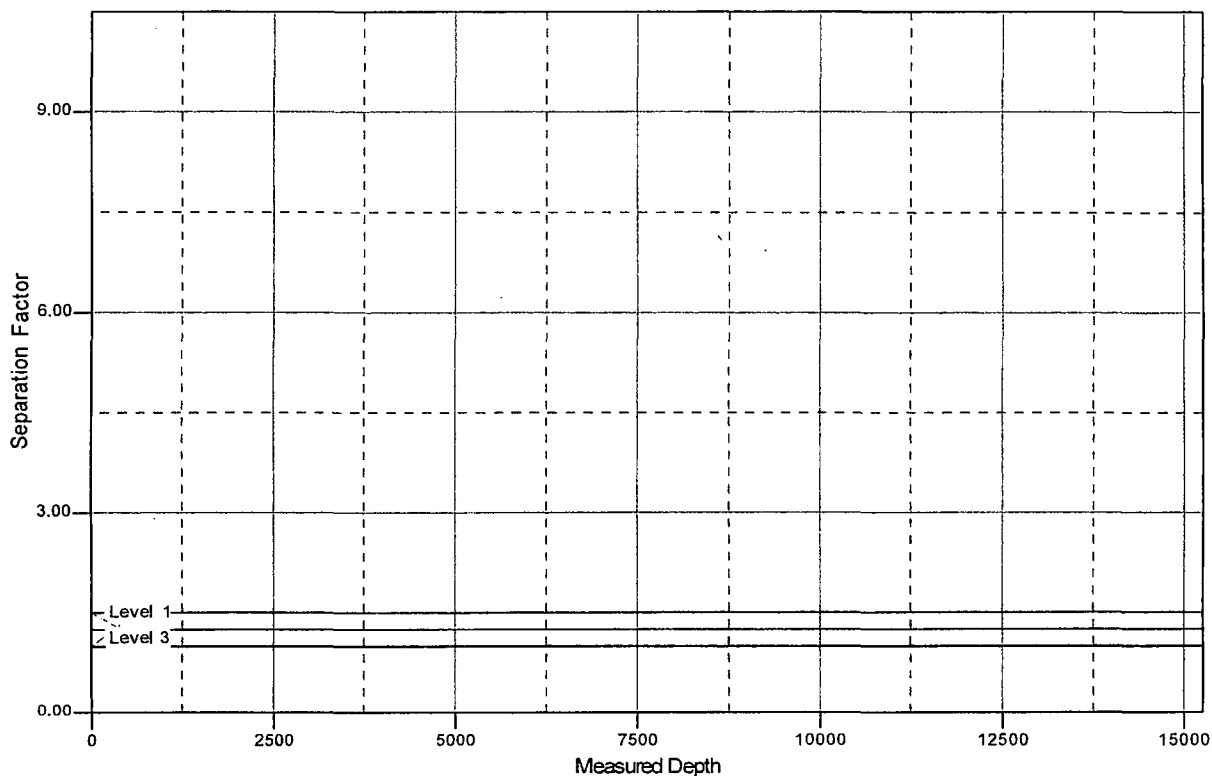
Central Meridian is 106° 15' 0.00 W

Coordinates are relative to: Regina Com 25-2-14-15

Coordinate System is US State Plane 1927 (Exact solution), New Mexico Central

Grid Convergence at Surface is: -0.46°

## Separation Factor Plot



### LEGEND

◆ Badger Com 14, OH (Offset), OH (Offset) V0    ● Banshee (Offset), OH Offset, OH Offset V0