

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1303424

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- ☐ New Well ☐ Re-Entry ☐ Workover
- ☐ Oil ☐ WSW ☐ SWD ☐ SIOW
- ☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
- ☐ OG ☐ GSW ☐ Temp. Abd.
- ☐ CM (Coal Bed Methane)
- ☐ Cathodic ☐ Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- ☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
- ☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer
- ☐ Commingled Permit #: _____
- ☐ Dual Completion Permit #: _____
- ☐ SWD Permit #: _____
- ☐ ENHR Permit #: _____
- ☐ GSW Permit #: _____

Spud Date or
Recompletion Date

Date Reached TD

Completion Date or
Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West

_____ Feet from ☐ North / ☐ South Line of Section

_____ Feet from ☐ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☐ SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☐ No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☐ Confidentiality Requested

Date: _____

☐ Confidential Release Date: _____

☐ Wireline Log Received

☐ Geologist Report Received

☐ UIC Distribution

ALT ☐ I ☐ II ☐ III Approved by: _____ Date: _____

Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West County: _____

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

| | | | | | |
|-------------------------------------------------------------|------------------------------|-----------------------------|------------------------------|----------------------------------|---------------------------------|
| Drill Stem Tests Taken <i>(Attach Additional Sheets)</i> | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input type="checkbox"/> Yes | <input type="checkbox"/> No | Name | Top | Datum |
| Cores Taken | <input type="checkbox"/> Yes | <input type="checkbox"/> No | | | |
| Electric Log Run | <input type="checkbox"/> Yes | <input type="checkbox"/> No | | | |
| List All E. Logs Run: | | | | | |

| <div style="text-align: center;"> CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used </div> <div style="text-align: center;">Report all strings set-conductor, surface, intermediate, production, etc.</div> | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|-----------------------------------------|---------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate | | | | |
| <input type="checkbox"/> Protect Casing | | | | |
| <input type="checkbox"/> Plug Back TD | | | | |
| <input type="checkbox"/> Plug Off Zone | | | | |

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☐ No (If No, skip questions 2 and 3)

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No (If No, skip question 3)

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No (If No, fill out Page Three of the ACO-1)

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) | | Depth |
|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|---------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| TUBING RECORD: Size: Set At: Packer At: | | | Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| Date of First, Resumed Production, SWD or ENHR. | | Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____ | | | |
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |

| | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| <p>DISPOSITION OF GAS:</p> <p><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease</p> <p><i>(If vented, Submit ACO-18.)</i></p> | | <p>METHOD OF COMPLETION:</p> <p><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled</p> <p><i>(Submit ACO-5)</i></p> <p><input type="checkbox"/> Other <i>(Specify)</i> _____</p> | <p>PRODUCTION INTERVAL:</p> <p>_____</p> <p>_____</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|

| | |
|-----------|---------------------------|
| Form | ACO1 - Well Completion |
| Operator | PetroSantander (USA) Inc. |
| Well Name | Nelson 2-2 |
| Doc ID | 1303424 |

Casing

| Purpose Of String | Size Hole Drilled | Size Casing Set | Weight | Setting Depth | Type Of Cement | Number of Sacks Used | Type and Percent Additives |
|-------------------|-------------------|-----------------|--------|---------------|----------------|----------------------|-------------------------------------|
| Surface | 12.25 | 8.625 | 20 | 474 | CLASS H | 330 | GEL 2% CC 3% |
| Production | 8.875 | 5.5 | 14 | 4883 | 50/50 POZ | 150 | SALT 18% GEL 2% CFR2 0.75% |
| Liner | 4.875 | 4.5 | 12.6 | 4768 | COMMON | 100 | NA |
| | | | | | | | |

PETROSANTANDER (USA) INC.

| | | | |
|---------------------|--------------------------|-------------------------|-----------------------|
| WELL NAME: | NELSON 2-2 | AFE#: | |
| REPORTED BY: | RON KREGER | OPERATIONS DATE: | JANUARY 25,26,27,2011 |
| OBJECTIVE: | WORK OVER | REPORT DAY: | 5,6,7 |
| RTD: | 4884' | CSG. SIZE: | 5 1/2" |
| PBTD: | 4853' CIBP@ 4774' | TBG. SIZE: | 2 3/8" WORKING STRING |
| PERFS: | 4746 - 4766' | FORMATION: | MORROW |

24 HOUR SUMMARY:

| | |
|----------|-------------------------------------------------------------------------------------------------------------|
| 01-25-11 | REPAIRED SLIPS AND TOH WITH TBG AND ANCHOR FOUND BROKEN SLIP ON TOP OF ANCHOR TIH WITH TAC AND TBG AGAIN |
|----------|-------------------------------------------------------------------------------------------------------------|

GOT INTO LINER WITH ANCHOR AND SET ANCHOR

TOH WITH TBG AND LINER LAYING LINER DOWN TO CHECK FOR DAMAGE ALL LOOKED OK

CUT OFF OLD CEMENT SHOE AND WELDED NEW ONE ONTO IT

TIH WITH LINER AGAIN AND TIH WITH TBG AGAIN TIED INTO LINER AND RAN TO BTM.

BTM OF LINER AT 4768' TOP OF LINER AT 4263' BY TBG TALLEY

| | |
|----------|--------------------------------------------------------------|
| 01-26-11 | MIRU CONSOLIDATED OIL WELL SERVICES TO CEMENT LINER IN PLACE |
|----------|--------------------------------------------------------------|

LOADED TBG WITH 18 BBL FRESH WATER, PUMPED 5 BBL OF DYE WATER,

MIXED 50 SKS CLASS A CEMENT AND PUMPED DOWN TBG DISPLACED W/17 BBL FRESH WATER

SHUT DOWN AND RELEASED PRESSURE SHOE HOLDING NO FLOW BACK

BACKED TBG OUT OF FLOAT SHOE AND WASHED OUT LINER AND TBG

TOH WITH TBG STRING WELL WOULD NOT QUIT FLOWING BACK

TIED PRESSURE TRUCK ONTO WELL AND PUT 500 PSI ON SDON

01-27-11 WELL STILL FLOWING BACK ,TIH WITH PACKER AND TBG TO SQUEEZE WELL

SET PACKER AT 4203' AND TOOK INJECTION RATE OF 2 BPM AT 1200 PSIG

MIXED 100 SKS COMMON AND PUMPED CEMENT DISPLACED WITH 17 BBL

SQUEEZED TO 2500 PSIG RELEASED AND DID NOT FLOW BACK REVERSED OUT

PULLED 10 JOINTS AND PRESSURED TO 750 PSIG SHUT WELL IN

| VENDOR | | SERVICE | COST | | | | |
|--------------|--|------------------|--------------|----------------|--|--|--------------|
| PSI RIG 1 | | SERVICE UNIT | \$ 10,000.00 | | | | |
| SAMS | | TOOLS & SERVICES | \$ 8,675.00 | | | | |
| CONSOLIDATED | | CEMENTERS | \$ 6,850.00 | | | | |
| ECWS | | TOOL RENTAL | \$ 700.00 | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | DAILY COST: | | | \$ 26,225.00 |
| | | | | PREVIOUS COST: | | | 20,050.00 |
| | | | | COST TO DATE: | | | \$ 46,275.00 |

PETROSANTANDER (USA) INC.

[illegible]

PETROSANTANDER (USA) INC.

| | | | |
|--------------|-------------------|-----------------|-------------------------------------------------------------------|
| WELL NAME: | NELSON 2-2 | AFE#: | |
| REPORTED BY: | GORDON A. | OPERATIONS DAY: | APRIL 7,14,15,18,19,20 - 2011 |
| OBJECTIVE: | W/O | REPORT DAY: | 1,2,3,4,5,6 |
| RTD: | 4884' | CSG. SIZE: | 5 1/2" 15.5# SRF-4263' 4 1/2" 12.6# CHROME LINER 4263'-4767' |
| PBTD: | LINER BTM @ 4767' | TBG. SIZE: | 2 3/8" TK-15 |
| PERFS: | 4746'-4762' 4 SPF | FORMATION: | MORROW |

24 HOUR SUMMARY: 4/7/2011 MIRU S.W. ACID TRIED TO PUMP ACID BUT ZONE WOULDN'T BREAK @ 3500# - RDMO S. W. ACID

4/14/2011 MIRU RICKS WELL SERVICE

RELEASED PKR AND TOH W/ TBG AND PKR

MIRU LOG-TECH TIH W/ GUN AND CORRELATED TO CBL - COULD NOT GET TO BOTTOM STACKING OUT @ 4746'

RD LOG-TECH

RIG UP SAND PUMP AND TIH W/ FLAT BOTTOM AND CHISEL AND COULD NOT GET PAST 4746' LAID SAND PUMP DOWN

MO LOG-TECH PACKED OFF WELL AND SDON

4/15/2011 NOT WORKING TODAY DUE TO HIGH WINDS

4/18/2011 PSI ROUSTABOUTS MOVED IN 181 JTS 2 3/8" TBG WORKING STRING

MIRU WEATHERFORD REVERSE UNIT

TIH W/ 149 1/2 JTS 2 3/8" TBG AND TAGGED @ 4767' - FELT A LITTLE DRAG @ 4746' WHERE WE WERE STACKING OUT

TOH W/ TBG, LAYING DN 4 JTS AND STANDING REST IN DERRICK

PACKED OFF WELL AND SDON PSI WATER TRUCK FILLED CIRCULATING TANK W/ 70 BBL LEASE WATER

4/19/2011 TIH W/ 3 7/8" DRILL BIT, XO, SUB, 4 DRILL COLLARS AND 144 JTS 2 3/8" TBG

PICKED UP JT 145 W/ SWIVEL AND STARTED ENGINES BROKE CIRCULATION RIGHT AWAY

WORKED BIT UP AND DOWN THRU TIGHT SPOT AND WIPED CLEAN

PICKED UP 15' OFF BOTTOM AND CIRCULATED HOLE FOR 2 HRS, GETTING FULL RETURNS

PRESSURED TO 1400# AND HELD - NO FLOW BACK

LAID SWIVEL DOWN

TOH W/ TBG SINGLING OUT ONTO GROUND

PACKED OFF WELL AND SDON

4/21/2011 MIRU LOG-TECH TIH W/ GUN AND CORRELATED TO CBL, SHOT PERFS 4746'-4762' 4 SPF - RDMO LOG-TECH ✓

TIH W/ 4 1/2" X 2 3/8" AS I NICKEL COATED PKR W/ PLASTIC LINER AND 2' TAILPIPE 9.0'

145 - JTS 2 3/8" OD EUE 8RD TK-15 TBG - 4690.00' TOTAL LENGTH @ KB = 4699.00' TBG SET 2' BELOW KB = 4701.00'

PACKED OFF WELL MIRU S. W. ACID SERVICES W/ 2000 GL 15% HCL W/ INHIB, CLAYSTAY, NE, SF - MIRU BRADY W/ 210 BBL PKR FL

DISPLACED ANNULUS W/ 110 BBL PKR FL - SET PKR AND PRESSURED TO 400# - HELD - PRESSURED TBG TO 1850# AND BROKE ZONE

TREATED WELL @ 2.5 BPM AND FLUSHED W/ 40 BBL PKR FL, 1500# AVG - ISIP 1050# - 5 MINS 526# - 10 MINS 325# - RELEASED PRESSURE

RDMO S.W. ACID AND BRADY - REASSEMBLED FLOW LINE AND POL @ 300 BPD @ 25# TBG PSI 4/21/2011 - RDMO RICKS WELL SERV

DAILY COST SUMMARY:

| VENDOR | SERVICE | COST | |
|-------------|---------------------|-------------|----------------|
| RICKS | SERVICE UNIT | \$12,000.00 | |
| LOG-TECH | PERFS | \$3,500.00 | |
| S.W. ACID | ACID BREAK DOWN | \$2,600.00 | |
| WEATHERFORD | REV CIR - FISHERMAN | \$6,000.00 | |
| SAMS | RECONDITION PKR | \$1,500.00 | |
| PSI | ROUSTABOUTS | \$1,500.00 | |
| BRADY | WATER TRUCKS | \$750.00 | |
| | | | |
| | | | DAILY COST: |
| | | | \$27,350.00 |
| | | | PREVIOUS COST: |
| | | | |
| | | | COST TO DATE: |
| | | | \$27,350.00 |

PETROSANTANDER (USA) INC.

[illegible]

PETROSANTANDER (USA) INC.

[illegible]