



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1211310
OIL & GAS CONSERVATION DIVISION

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: _____

1211310

Operator Name: _____ Lease Name: _____ Well #: _____

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

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

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: | | | | |

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| 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 <i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| | | | | | |

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

| | |
|-----------|--|
| Form | ACO1 - Well Completion |
| Operator | SandRidge Exploration and Production LLC |
| Well Name | Jellison A 3319 10-5H |
| Doc ID | 1211310 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|----------------|--------------------|-----------------|-------|
| 4 | 5626-5628 | | |
| 4 | 5736-5738 | | |
| 4 | 5818-5820 | | |
| 4 | 5894-5896 | | |
| 5 | 6270-6272 | | |
| 5 | 6334-6336 | | |
| 5 | 6403-6405 | | |
| 5 | 6481-6483 | | |
| 5 | 6580-6582 | | |
| 5 | 6671-6673 | | |
| 5 | 6770-6772 | | |
| 5 | 6822-6824 | | |
| 5 | 6874-6876 | | |
| 5 | 6962-6964 | | |
| 5 | 7032-7034 | | |
| 5 | 7098-7100 | | |
| 5 | 7209-7211 | | |
| 5 | 7280-7282 | | |
| 5 | 7363-7365 | | |
| 5 | 7447-7449 | | |
| 5 | 7523-7525 | | |
| 5 | 7640-7642 | | |
| 5 | 7700-7702 | | |
| 5 | 7801-7803 | | |

| | |
|-----------|--|
| Form | ACO1 - Well Completion |
| Operator | SandRidge Exploration and Production LLC |
| Well Name | Jellison A 3319 10-5H |
| Doc ID | 1211310 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|----------------|--------------------|-----------------|-------|
| 5 | 7902-7904 | | |
| 5 | 7954-7956 | | |
| 5 | 8007-8009 | | |
| 5 | 8058-8060 | | |
| 5 | 8118-8120 | | |
| 5 | 8257-8259 | | |
| 5 | 8309-8311 | | |
| 5 | 8384-8386 | | |
| 5 | 8456-8458 | | |
| 5 | 8561-8563 | | |
| 5 | 8696-8695 | | |
| 5 | 8748-8750 | | |
| 5 | 8818-8820 | | |
| 5 | 8875-8877 | | |
| 5 | 8957-8959 | | |
| 5 | 9055-9057 | | |
| 5 | 9134-9136 | | |
| 5 | 9208-9210 | | |
| 5 | 9270-9272 | | |
| 5 | 9355-9357 | | |
| 5 | 9448-9450 | | |
| 5 | 9537-9539 | | |
| 5 | 9647-9649 | | |
| 5 | 9736-9738 | | |

| | |
|-----------|--|
| Form | ACO1 - Well Completion |
| Operator | SandRidge Exploration and Production LLC |
| Well Name | Jellison A 3319 10-5H |
| Doc ID | 1211310 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|----------------|--------------------|-----------------|-------|
| 5 | 9797-9799 | | |
| 5 | 9890-9892 | | |
| 5 | 9982-9984 | | |
| 5 | 10096-10098 | | |
| 5 | 10144-10146 | | |
| 5 | 10194-10196 | | |
| 5 | 10260-10262 | | |
| 5 | 10321-10323 | | |
| 5 | 10380-10382 | | |
| 5 | 10442-10444 | | |
| 5 | 10540-10542 | | |

Hydraulic Fracturing Fluid Product Component Information Disclosure

| | |
|--------------------------------|-----------------------|
| Job Start Date: | 4/25/2014 |
| Job End Date: | 4/26/2014 |
| State: | Kansas |
| County: | Comanche |
| API Number: | 15-033-21752-01-00 |
| Operator Name: | SandRidge Energy |
| Well Name and Number: | Jellison A 3319 10-5H |
| Longitude: | -99.41178000 |
| Latitude: | 37.19276000 |
| Datum: | NAD27 |
| Federal/Tribal Well: | NO |
| True Vertical Depth: | 5,147 |
| Total Base Water Volume (gal): | 2,756,964 |
| Total Base Non Water Volume: | 0 |



Hydraulic Fracturing Fluid Composition:

| Trade Name | Supplier | Purpose | Ingredients | Chemical Abstract Service Number (CAS #) | Maximum Ingredient Concentration in Additive (% by mass)** | Maximum Ingredient Concentration in HF Fluid (% by mass)** | Comments |
|-----------------------------|--------------|------------------|--|--|--|--|-------------------|
| Water | Operator | Carrier | | | | | |
| | | | Water | 7732-18-5 | 100.00000 | 95.73191 | |
| Sand, Brown (40/70) | Baker Hughes | Proppant | | | | | |
| | | | Crystalline Silica: Quartz (SiO2) | 14808-60-7 | 100.00000 | 3.06307 | |
| HCl, 10.1 - 15% | Baker Hughes | Acidizing | | | | | |
| | | | Water | 7732-18-5 | 85.00000 | 0.61600 | SmartCare Product |
| | | | Hydrochloric Acid | 7647-01-0 | 15.00000 | 0.10871 | SmartCare Product |
| Preferred Garnet RC 40/70 | Baker Hughes | Proppant | | | | | |
| | | | Crystalline Silica (Quartz) | 14808-60-7 | 100.00000 | 0.35399 | |
| | | | Castor Oil | 8001-79-4 | 5.00000 | 0.01770 | |
| NE-900, tote | Baker Hughes | Non-emulsifier | | | | | |
| | | | Methanol | 67-56-1 | 30.00000 | 0.01338 | SmartCare Product |
| | | | Nonyl phenyl polyethylene glycol ether | 9016-45-9 | 10.00000 | 0.00446 | SmartCare Product |
| FRW-15DX | Baker Hughes | Friction Reducer | | | | | |
| | | | Anionic Water-Soluble Polymer | Trade Secret | 100.00000 | 0.01660 | |
| Scaletrol 7208, 330 gl tote | Baker Hughes | Scale Inhibitor | | | | | |
| | | | Ethylene Glycol | 107-21-1 | 30.00000 | 0.00748 | |
| FRW-15A, tote | Baker Hughes | Friction Reducer | | | | | |

| | | | | | | | |
|--|--------------|---------------------|---|--------------|-----------|---------|-------------------|
| | | | Contains non-hazardous ingredients that are shown in the non-MSDS section of this report. | NA | 100.00000 | 0.00339 | SmartCare Product |
| Ferrotrol 300L (Totes) | Baker Hughes | Iron Control | | | | | |
| | | | Citric Acid | 77-92-9 | 60.00000 | 0.00252 | SmartCare Product |
| Cl-27 (260 gal tote) | Baker Hughes | Corrosion Inhibitor | | | | | |
| | | | Methanol | 67-56-1 | 60.00000 | 0.00045 | |
| | | | Thiourea Polymer | 68527-49-1 | 30.00000 | 0.00022 | |
| | | | Fatty Acids | Trade Secret | 30.00000 | 0.00022 | |
| | | | Polyoxyalkylenes | Trade Secret | 30.00000 | 0.00022 | |
| | | | Propargyl Alcohol | 107-19-7 | 10.00000 | 0.00007 | |
| | | | Olefin | Trade Secret | 5.00000 | 0.00004 | |
| Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS. | | | | | | | |
| | | Other Chemicals | | | | | |
| | | | Water | 7732-18-5 | | 0.03778 | |
| | | | Copolymer | Trade Secret | | 0.01784 | |
| | | | Copolymer of Acrylamide and Sodium Acrylate | 25987-30-8 | | 0.00136 | |
| | | | Diethylene Glycol | 111-46-6 | | 0.00125 | |
| | | | Hydrotreated Light Distillate | 64742-47-8 | | 0.00102 | |
| | | | Nonyl Phenol Ethoxylate | 127087-87-0 | | 0.00017 | |
| | | | Sorbitan Monooleate | 1338-43-8 | | 0.00017 | |
| | | | Sodium Chloride | 7647-14-5 | | 0.00000 | |
| | | | Formaldehyde | 50-00-0 | | 0.00000 | |
| | | | Calcium Chloride | 10043-52-4 | | | |
| | | | 2-Propenoic, Polymer with Sodium Phosphinate, Sodium Salt | 71050-62-9 | | | |
| | | | Potassium Chloride | 7447-40-7 | | | |
| | | | Polyacrylate | Trade Secret | | | |

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)



INVOICE

| | |
|----------|-----------|
| DATE | INVOICE # |
| 3/7/2014 | 4599 |

| |
|--|
| BILL TO |
| SANDRIDGE ENERGY, INC. ATTN: PURCHASING MANAGER 123 ROBERT S. KERR AVENUE OKLAHOMA CITY, OK 73102 |

| |
|---|
| REMIT TO |
| EDGE SERVICES, INC. PO BOX 609 WOODWARD, OK 73802 |

| COUNTY | STARTING D... | WORK ORDER | RIG NUMBER | LEASE NAME | Terms |
|---------------|---------------|------------|------------|-----------------------|---------------|
| COMANCHE, ... | 3/5/2014 | 3505 | NOMAC 52 | JELLISON A 3319 10-5H | Due on rec... |

| Description |
|---|
| DRILLED 100' OF 30" CONDUCTOR HOLE DRILLED 6' OF 76" HOLE FURNISHED AND SET 6' X 6' TINHORN CELLAR FURNISHED 100' OF 20" CONDUCTOR PIPE FURNISHED MUD, WATER, AND TRUCKING FURNISHED 10 YARDS OF 10 SACK GROUT FOR CONDUCTOR HOLE FURNISHED 3 YARDS OF 10 SACK GROUT FOR MOUSE HOLE FURNISHED GROUT PUMP DRILL MOUSE HOLE FURNISHED 50' OF 16" CONDUCTOR PIPE TOTAL BID \$19,003.26 |

| | |
|--------------------------|----------|
| Sales Tax (6.15%) | \$153.26 |
|--------------------------|----------|

| | |
|--------------|-------------|
| TOTAL | \$19,003.26 |
|--------------|-------------|



SandRidge Energy
Jellison #3319 10-5H
Comanche County, KS.

1.0 Executive Summary

Allied Oil & Gas Services would like to thank you for the award of the provision of cementing products and services on the well Jellison #3319 10-5 H Intermediate Casing.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 3000 psi. After a successful test we began the job by pumping 30 bbls of preflush spacer. We then mixed and pumped the following cements:

60 Bbls (240 sacks) of 13.6 ppg Lead slurry:
50:50 Class A:Poz Blend - 1.4 Yield
2.0% Gel
0.4% FL-160
0.1% SA-51

21Bbls (100 sacks) of 15.6 ppg Tail slurry:
Class A - 1.18 Yield
0.8% FL-160
0.2% CD-31

The top plug was then released and displaced with 233 of fresh water. The plug bumped and pressured up to 1500 psi. Pressure was released and floats held.

All real time data is shown on the graph in the attachment section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.

ALLIED OIL & GAS SERVICES, LLC 062738

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Red Lodge KS

| | | | | | | | |
|--|--------------------|-----------------|---|--------------------------|---------------------------|-------------------------|--------------------------|
| DATE <u>3/14/14</u> | SEC <u>32</u> | TWP <u>32 S</u> | RANGE <u>19 W</u> | CALLED OUT <u>600 AM</u> | ON LOCATION <u>930 AM</u> | JOB START <u>215 AM</u> | JOB FINISH <u>330 PM</u> |
| LEASE <u>Jellison</u> | WELL # <u>3319</u> | <u>10-5H</u> | LOCATION <u>Protection KS, 1 1/2 East to Rd 6,</u> | COUNTY <u>Comanche</u> | STATE <u>KS</u> | | |
| OLD OR <input checked="" type="radio"/> NEW (Circle one) | | | North Inixa Rd M, East to CG, Follow M East 1.2 mi to Rig | | | | |

CONTRACTOR Nomcc 52
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 860
CASING SIZE 9 5/8 DEPTH 864
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 1300 MINIMUM
MEAS. LINE SHOE JOINT 44
CEMENT LEFT IN CSG. 44
PERFS.
DISPLACEMENT 63 1/2 BBLs Fresh H₂O

OWNER Sand Ridge Energy
CEMENT
AMOUNT ORDERED 295 ex 65:35:6% Gcl + 2% cc + 1/4 Flo seal, 150 ex Class A + 2% cc + 1/4# Flo seal, # suggest
COMMON Class A 150 @ 17.90 2685.00
POZMIX @
GEL @
CHLORIDE 11 ex @ 64.00 704.00
ASC @
ALW.C. Type 1 class 295 @ 16.50 4867.50
Flo seal 112 lb @ 2.97 332.64
Circulating Iron 1 Day @ 450.00 450.00
@
@
@
@
@
HANDLING 493.83 cu ft @ 2.48 1224.70
MILEAGE 1055.29 ton-miles @ 2.60 2743.74
TOTAL 13007.58

REMARKS:

AFE Number: DC 13669
Well Name: Jellison A 3319 10-5H
Code: 830.360
Amount: 11291.66
Co. Man: [Signature]
Co. Man Sig: [Signature]
Notes: _____

SERVICE

DEPTH OF JOB 864
PUMP TRUCK CHARGE 2058.50
EXTRA FOOTAGE @
MILEAGE 50 mi @ 7.70 385.00
MANIFOLD + Head @ 275.00
LV 50 mi @ 4.40 220.00
@

TOTAL 2938.50

CHARGE TO: Sand Ridge Energy
STREET _____
CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

95/8
Rubber Plug @ 184.86
@
@
@
@
TOTAL 184.86

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) _____
TOTAL CHARGES _____
DISCOUNT \$ IF PAID IN 30 DAYS

PRINTED NAME _____

SIGNATURE _____

Jellison A 3319 10-5H

Company Name : SandRidge Energy

Map Units : US ft

Vertical Reference Datum (VRD) : Mean Sea Level

Projected Coordinate System : NAD27 / Kansas South

Comment :

Field Name

SandRidge Energy -
Comanche County, KS S
NAD 27 US FT

Units : US ft

North Reference : Grid

Convergence Angle : -0.56

Northing : 198745.57 US ft

Latitude : 37° 12' 32.08"

Position

Easting : 1733819.14 US ft

Longitude : -99° 24' 50.27"

Site Name

Jellison A 3319 10-5H

Site TVD Reference : Mean Sea Level

Elevation above Mean Sea Level:1885.00 US ft

Comment :

Slot Name

Jellison A 3319 10-5H

Position (Offsets relative to Site Centre)

Northing : 198745.57 US ft

Latitude : 37° 12' 32.08"

+N / -S : 0.00 US ft

Easting : 1733819.14 US ft

Longitude : -99° 24' 50.27"

+E / -W : 0.00 US ft

Slot TVD Reference : Ground Elevation

Elevation above Mean Sea Level : 1885.00 US ft

Comment :

Type : Main well

Rig Height *Drill Floor* : 19.00 US ft

Relative to Mean Sea Level: 1904.00 US ft

Closure Distance : 5622.95 US ft

Vertical Section (Position of Origin Relative to Site)

+N / -S : 0.00 US ft

+E / -W : 0.00 US ft

Az :171.19°

UWI :

Comment :

Closure Azimuth : 170.828°

Target Set

Name : Jellison A 3319 10-5H - T1 Number of Targets : 1

Comment : 5160' TVD @ 90.4°

TargetName:

PBHL

Shape:

Cuboid

Position (Relative to Site centre)

Northing : 193173.00 US ft
 Easting : 1734683.00US ft

Latitude : 37°11'37.07"
 Longitude : -99°24'38.92"

+N / -S : -5572.57US ft
 +E / -W : 863.86 US ft
 TVD (Drill Floor) : 5120.63 US ft
 SS : -3216.63 US ft

Orientation Dimensions
 Azimuth : 0.00°
 Length : 0.00 US ft

Inclination : 0.00°
 Breadth : 0.00 US ft

Height : 0.00 US ft

Survey Name :Definitive Survey

Date : 10/Mar/2014

Survey Tool :

Comment :

Company :

Magnetic Model

Model Name: IGRF

Date: 10/Mar/2014

Field Strength: 51639.7 nT

Dip: 65.10°

Survey Tool Ranges

Name

Start MD (usft)

End MD (usft)

Source Survey

Inc Only 3deg_WFFR

0.00

740.00

Rig Surveys

MWD

740.00

10645.00

WFT MWD Surveys

Well path created using minimum curvature

Survey Points (Relative to Site centre, TVD relative to Drill Floor)

| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | N. Offset (US ft) | E. Offset (US ft) | VS (US ft) | DLS (°/100 US ft) | Comment |
|------------|---------|--------|-------------|-------------------|-------------------|------------|-------------------|------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | 0.00 | |
| 246.00 | 0.40 | 327.22 | 246.00 | 0.72 | -0.46 | -0.78 | 0.16 | |
| 500.00 | 0.20 | 327.22 | 499.99 | 1.84 | -1.18 | -2.00 | 0.08 | |
| 740.00 | 0.30 | 327.22 | 739.99 | 2.72 | -1.75 | -2.96 | 0.04 | |
| 1043.00 | 0.70 | 327.22 | 1042.98 | 4.94 | -3.18 | -5.37 | 0.13 | |
| 1506.00 | 0.50 | 300.59 | 1505.96 | 8.35 | -6.45 | -9.24 | 0.07 | |
| 1949.00 | 1.12 | 131.08 | 1948.93 | 6.49 | -4.85 | -7.15 | 0.36 | |
| 2451.00 | 1.02 | 135.07 | 2450.85 | 0.10 | 2.00 | 0.21 | 0.02 | |
| 2955.00 | 0.91 | 228.73 | 2954.80 | -5.72 | 2.16 | 5.98 | 0.28 | |
| 3521.00 | 0.78 | 31.40 | 3520.78 | -5.39 | 0.79 | 5.45 | 0.30 | |
| 4109.00 | 0.40 | 71.44 | 4108.75 | -1.32 | 4.82 | 2.04 | 0.09 | First WFT Survey |
| 4150.00 | 0.72 | 78.36 | 4149.75 | -1.22 | 5.21 | 2.01 | 0.80 | 2 |

5D Survey Report

| Survey Points (Relative to Site centre, TVD relative to Drill Floor) | | | | | | | | | | |
|--|------------|-----------|----------------|----------------------|----------------------|---------------|----------------------|----------------------|---------|--|
| N.D (US ft) | Inc (°) | Az (°) | TVD (US ft) | N. Offset (US ft) | E. Offset (US ft) | VS (US ft) | DLS (°/100 US ft) | DLS (°/100 US ft) | Comment | |
| 4182.00 | 3.39 | 99.32 | 4181.72 | -1.34 | 6.34 | 2.29 | 8.53 | | | |
| 4214.00 | 7.54 | 101.37 | 4213.57 | -1.90 | 9.33 | 3.31 | 12.98 | | | |
| 4245.00 | 10.93 | 101.29 | 4244.16 | -2.88 | 14.21 | 5.02 | 10.94 | | | |
| 4277.00 | 13.52 | 98.43 | 4275.44 | -4.02 | 20.89 | 7.18 | 8.31 | | | |
| 4308.00 | 16.10 | 98.27 | 4305.40 | -5.17 | 28.73 | 9.51 | 8.32 | | | |
| 4339.00 | 18.52 | 99.80 | 4335.00 | -6.63 | 37.83 | 12.35 | 7.94 | | | |
| 4371.00 | 20.29 | 102.23 | 4365.18 | -8.67 | 48.26 | 15.96 | 6.08 | | | |
| 4402.00 | 21.74 | 107.39 | 4394.12 | -11.53 | 59.00 | 20.43 | 7.58 | | | |
| 4434.00 | 23.20 | 111.49 | 4423.69 | -15.61 | 70.52 | 26.22 | 6.69 | | | |
| 4466.00 | 25.19 | 110.05 | 4452.88 | -20.25 | 82.78 | 32.69 | 6.49 | | | |
| 4497.00 | 27.04 | 108.01 | 4480.71 | -24.69 | 95.68 | 39.05 | 6.63 | | | |
| 4529.00 | 27.33 | 107.00 | 4509.18 | -29.09 | 109.62 | 45.53 | 1.70 | | | |
| 4560.00 | 28.36 | 105.28 | 4536.59 | -33.11 | 123.53 | 51.64 | 4.21 | | | |
| 4591.00 | 30.46 | 105.11 | 4563.59 | -37.10 | 138.22 | 57.83 | 6.78 | | | |
| 4623.00 | 32.61 | 106.16 | 4590.87 | -41.61 | 154.34 | 64.76 | 6.93 | | | |
| 4655.00 | 35.87 | 106.56 | 4617.32 | -46.69 | 171.61 | 72.42 | 10.21 | | | |
| 4688.00 | 38.54 | 106.70 | 4643.60 | -52.40 | 190.73 | 80.99 | 8.09 | | | |
| 4719.00 | 41.28 | 106.28 | 4667.37 | -58.04 | 209.80 | 89.49 | 8.88 | | | |
| 4751.00 | 43.93 | 105.96 | 4690.92 | -64.05 | 230.61 | 98.62 | 8.31 | | | |
| 4782.00 | 46.89 | 106.26 | 4712.69 | -70.18 | 251.81 | 107.92 | 9.57 | | | |
| 4814.00 | 48.72 | 106.30 | 4734.18 | -76.82 | 274.57 | 117.97 | 5.72 | | | |
| 4845.00 | 50.37 | 106.23 | 4754.29 | -83.43 | 297.21 | 127.97 | 5.33 | | | |
| 4876.00 | 51.56 | 105.13 | 4773.81 | -89.94 | 320.40 | 137.95 | 4.73 | | | |
| 4909.00 | 54.00 | 104.00 | 4793.77 | -96.54 | 345.83 | 148.37 | 7.88 | | | |
| 4940.00 | 55.28 | 106.37 | 4811.72 | -103.17 | 370.22 | 158.65 | 7.48 | | | |
| 4972.00 | 56.17 | 109.12 | 4829.74 | -111.23 | 395.40 | 170.47 | 7.63 | | | |
| 5004.00 | 57.01 | 112.25 | 4847.36 | -120.66 | 420.39 | 183.63 | 8.58 | | | |
| 5035.00 | 58.27 | 115.34 | 4863.96 | -131.23 | 444.34 | 197.74 | 9.35 | | | |
| 5067.00 | 59.76 | 118.28 | 4880.43 | -143.61 | 468.82 | 213.72 | 9.15 | | | |
| 5098.00 | 60.93 | 121.04 | 4895.77 | -156.94 | 492.22 | 230.48 | 8.61 | | | |
| 5130.00 | 62.19 | 123.70 | 4911.01 | -172.01 | 515.98 | 249.00 | 8.30 | | | |
| 5160.00 | 63.46 | 126.69 | 4924.72 | -187.39 | 537.78 | 267.54 | 9.82 | | | |
| 5192.00 | 64.18 | 129.51 | 4938.84 | -205.11 | 560.38 | 288.51 | 8.22 | | | |
| 5223.00 | 65.33 | 132.78 | 4952.06 | -223.55 | 581.49 | 309.98 | 10.24 | | | |
| 5255.00 | 66.55 | 135.29 | 4965.11 | -243.86 | 602.49 | 333.26 | 8.11 | | | |
| 5286.00 | 66.92 | 138.38 | 4977.36 | -264.63 | 621.97 | 356.77 | 9.23 | | | |
| 5317.00 | 67.25 | 141.09 | 4989.43 | -286.42 | 640.42 | 381.13 | 8.12 | | | |
| 5349.00 | 66.93 | 142.48 | 5001.89 | -309.58 | 658.65 | 406.80 | 4.12 | | | |
| 5381.00 | 67.32 | 143.92 | 5014.33 | -333.19 | 676.31 | 432.84 | 4.32 | | | |
| 5412.00 | 67.62 | 146.68 | 5026.21 | -356.72 | 692.61 | 458.60 | 8.28 | | | |
| 5443.00 | 68.23 | 149.64 | 5037.86 | -381.13 | 707.76 | 485.03 | 9.06 | | | |

5D Survey Report

| Survey Points (Relative to Site centre, TVD relative to Drill Floor) | | | | | | | | | |
|--|------------|-----------|----------------|----------------------|----------------------|----------------|----------------------|----------------------|---------|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | N. Offset (US ft) | E. Offset (US ft) | I/S (US ft) | D/S (%/100 US ft) | D/S (%/100 US ft) | Comment |
| 5475.00 | 69.50 | 152.74 | 5049.40 | -407.28 | 722.14 | 513.07 | 9.87 | | |
| 5506.00 | 70.60 | 155.45 | 5059.98 | -433.49 | 734.87 | 540.92 | 8.95 | | |
| 5538.00 | 71.63 | 157.85 | 5070.34 | -461.28 | 746.86 | 570.23 | 7.79 | | |
| 5569.00 | 73.04 | 159.63 | 5079.74 | -488.81 | 757.57 | 599.07 | 7.11 | | |
| 5601.00 | 74.72 | 161.94 | 5088.63 | -517.84 | 767.69 | 629.30 | 8.70 | | |
| 5632.00 | 76.38 | 164.21 | 5096.37 | -546.55 | 776.42 | 659.02 | 8.89 | | |
| 5664.00 | 78.46 | 167.09 | 5103.34 | -576.81 | 784.16 | 690.10 | 10.93 | | |
| 5695.00 | 79.38 | 168.06 | 5109.29 | -606.51 | 790.70 | 720.46 | 4.27 | | |
| 5726.00 | 80.79 | 169.66 | 5114.63 | -636.47 | 796.60 | 750.97 | 6.82 | | |
| 5758.00 | 81.43 | 171.55 | 5119.58 | -667.66 | 801.76 | 782.58 | 6.17 | | |
| 5789.00 | 82.57 | 173.49 | 5123.89 | -698.10 | 805.76 | 813.27 | 7.21 | | |
| 5821.00 | 84.54 | 175.79 | 5127.49 | -729.75 | 808.73 | 845.01 | 9.43 | | |
| 5852.00 | 85.73 | 177.51 | 5130.11 | -760.59 | 810.53 | 875.75 | 6.73 | | |
| 5883.00 | 85.87 | 177.97 | 5132.39 | -791.48 | 811.75 | 906.47 | 1.55 | | |
| 5915.00 | 85.80 | 177.91 | 5134.71 | -823.38 | 812.90 | 938.16 | 0.29 | | |
| 5946.00 | 85.66 | 177.87 | 5137.02 | -854.27 | 814.04 | 968.87 | 0.47 | | |
| 6009.00 | 85.38 | 177.13 | 5141.94 | -917.02 | 816.77 | 1031.29 | 1.25 | | |
| 6041.00 | 85.23 | 177.23 | 5144.56 | -948.87 | 818.34 | 1063.01 | 0.56 | | |
| 6072.00 | 85.10 | 176.98 | 5147.17 | -979.72 | 819.90 | 1093.74 | 0.91 | | |
| 6103.00 | 85.73 | 177.59 | 5149.65 | -1010.59 | 821.37 | 1124.46 | 2.82 | | |
| 6132.00 | 88.67 | 178.69 | 5151.07 | -1039.53 | 822.31 | 1153.21 | 10.82 | | |
| 6230.00 | 91.75 | 178.96 | 5150.71 | -1137.50 | 824.32 | 1250.33 | 3.15 | | |
| 6293.00 | 91.61 | 178.42 | 5148.86 | -1200.46 | 825.76 | 1312.76 | 0.89 | | |
| 6357.00 | 90.00 | 178.73 | 5147.96 | -1264.43 | 827.35 | 1376.22 | 2.56 | | |
| 6420.00 | 90.14 | 179.44 | 5147.88 | -1327.42 | 828.35 | 1438.63 | 1.15 | | |
| 6482.00 | 89.93 | 179.18 | 5147.85 | -1389.41 | 829.10 | 1500.00 | 0.54 | | |
| 6546.00 | 89.86 | 178.45 | 5148.04 | -1453.40 | 830.19 | 1563.41 | 0.48 | | |
| 6609.00 | 90.14 | 178.32 | 5148.04 | -1516.39 | 831.66 | 1625.87 | 0.68 | | |
| 6672.00 | 90.21 | 179.18 | 5147.85 | -1579.36 | 833.44 | 1688.38 | 0.49 | | |
| 6735.00 | 90.28 | 179.42 | 5147.58 | -1642.35 | 834.81 | 1750.83 | 1.37 | | |
| 6798.00 | 90.35 | 180.03 | 5147.23 | -1705.34 | 835.58 | 1813.20 | 0.40 | | |
| 6862.00 | 90.98 | 180.84 | 5146.49 | -1769.34 | 835.89 | 1876.49 | 0.96 | | |
| 6925.00 | 91.33 | 180.75 | 5145.20 | -1832.33 | 835.41 | 1938.66 | 1.63 | | |
| 6989.00 | 91.47 | 180.47 | 5143.69 | -1896.31 | 834.52 | 2001.75 | 0.56 | | |
| 7051.00 | 91.54 | 180.61 | 5142.03 | -1958.29 | 833.86 | 2062.90 | 0.50 | | |
| 7114.00 | 91.89 | 180.31 | 5142.03 | -2021.27 | 833.27 | 2125.04 | 0.25 | | |
| 7177.00 | 91.26 | 179.95 | 5140.15 | -2084.24 | 832.76 | 2187.19 | 0.73 | | |
| 7240.00 | 90.49 | 180.02 | 5138.42 | -2147.21 | 832.62 | 2249.40 | 1.15 | | |
| 7303.00 | 90.42 | 180.28 | 5137.46 | -2210.20 | 832.64 | 2311.65 | 1.23 | | |
| 7366.00 | 90.28 | 180.26 | 5136.95 | -2273.20 | 832.47 | 2373.88 | 0.43 | | |
| 7428.00 | 90.28 | 180.26 | 5136.58 | -2335.20 | 832.18 | 2435.10 | 0.23 | | |

5D Survey Report

| Survey Points (Relative to Site centre, TVD relative to Drill Floor) | | | | | | | | | | |
|--|---------|--------|-------------|-------------------|-------------------|-------------|-------------------|-------------|---------|--|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | N. Offset (US ft) | E. Offset (US ft) | V/S (US ft) | DLS (%/100 US ft) | DLS (US ft) | Comment | |
| 7491.00 | 89.58 | 180.14 | 5136.65 | -2398.20 | 831.96 | 2497.33 | 1.13 | | | |
| 7554.00 | 89.86 | 180.12 | 5136.96 | -2461.20 | 831.82 | 2559.56 | 0.45 | | | |
| 7617.00 | 90.21 | 179.98 | 5136.92 | -2524.20 | 831.76 | 2621.81 | 0.60 | | | |
| 7680.00 | 90.49 | 179.83 | 5136.54 | -2587.20 | 831.87 | 2684.08 | 0.50 | | | |
| 7743.00 | 90.56 | 179.70 | 5135.96 | -2650.19 | 832.13 | 2746.37 | 0.23 | | | |
| 7806.00 | 90.70 | 179.85 | 5135.27 | -2713.19 | 832.37 | 2808.66 | 0.33 | | | |
| 7869.00 | 90.14 | 179.08 | 5134.81 | -2776.18 | 832.96 | 2871.00 | 1.51 | | | |
| 7932.00 | 90.21 | 178.77 | 5134.61 | -2839.17 | 834.14 | 2933.43 | 0.50 | | | |
| 7994.00 | 90.35 | 178.93 | 5134.31 | -2901.16 | 835.39 | 2994.88 | 0.34 | | | |
| 8057.00 | 90.70 | 178.90 | 5133.73 | -2964.14 | 836.58 | 3057.30 | 0.56 | | | |
| 8120.00 | 91.05 | 178.83 | 5132.77 | -3027.12 | 837.83 | 3119.73 | 0.57 | | | |
| 8183.00 | 90.42 | 178.90 | 5131.96 | -3090.11 | 839.08 | 3182.16 | 1.01 | | | |
| 8207.00 | 90.49 | 178.84 | 5131.77 | -3114.10 | 839.55 | 3205.94 | 0.38 | | | |
| 8270.00 | 89.51 | 178.71 | 5131.77 | -3177.09 | 840.90 | 3268.39 | 1.57 | | | |
| 8333.00 | 89.16 | 178.91 | 5132.50 | -3240.07 | 842.20 | 3330.83 | 0.64 | | | |
| 8397.00 | 88.95 | 178.96 | 5133.56 | -3304.05 | 843.39 | 3394.24 | 0.34 | | | |
| 8460.00 | 88.32 | 178.72 | 5135.06 | -3367.02 | 844.67 | 3456.66 | 1.07 | | | |
| 8523.00 | 88.53 | 178.63 | 5136.79 | -3429.98 | 846.13 | 3519.10 | 0.36 | | | |
| 8586.00 | 90.63 | 179.54 | 5137.25 | -3492.96 | 847.13 | 3581.50 | 3.63 | | | |
| 8649.00 | 89.65 | 179.63 | 5137.10 | -3555.96 | 847.59 | 3643.82 | 1.56 | | | |
| 8712.00 | 89.30 | 179.74 | 5137.68 | -3618.96 | 847.93 | 3706.13 | 0.58 | | | |
| 8775.00 | 90.35 | 179.00 | 5137.87 | -3681.95 | 848.63 | 3768.48 | 2.04 | | | |
| 8838.00 | 89.65 | 178.36 | 5137.87 | -3744.93 | 850.08 | 3830.95 | 1.51 | | | |
| 8901.00 | 89.72 | 178.64 | 5138.22 | -3807.91 | 851.73 | 3893.43 | 0.46 | | | |
| 8964.00 | 90.35 | 178.66 | 5138.18 | -3870.89 | 853.21 | 3955.90 | 1.00 | | | |
| 9027.00 | 91.82 | 178.86 | 5136.98 | -3933.87 | 854.57 | 4018.34 | 2.35 | | | |
| 9091.00 | 92.17 | 179.12 | 5134.76 | -3997.82 | 855.70 | 4081.71 | 0.68 | | | |
| 9154.00 | 91.54 | 179.33 | 5132.72 | -4060.78 | 856.55 | 4144.06 | 1.05 | | | |
| 9217.00 | 90.84 | 178.51 | 5131.41 | -4123.75 | 857.74 | 4206.47 | 1.71 | | | |
| 9280.00 | 91.19 | 178.89 | 5130.29 | -4186.73 | 859.17 | 4268.92 | 0.82 | | | |
| 9344.00 | 91.12 | 179.17 | 5129.00 | -4250.70 | 860.25 | 4332.31 | 0.45 | | | |
| 9406.00 | 91.33 | 178.55 | 5127.68 | -4312.68 | 861.49 | 4393.74 | 1.06 | | | |
| 9470.00 | 90.63 | 179.25 | 5126.58 | -4376.65 | 862.71 | 4457.15 | 1.55 | | | |
| 9534.00 | 89.65 | 179.67 | 5126.43 | -4440.65 | 863.32 | 4520.48 | 1.67 | | | |
| 9598.00 | 89.44 | 178.78 | 5126.93 | -4504.64 | 864.18 | 4583.85 | 1.43 | | | |
| 9661.00 | 89.79 | 177.84 | 5127.36 | -4567.61 | 866.04 | 4646.36 | 1.59 | | | |
| 9724.00 | 89.86 | 177.80 | 5127.55 | -4630.57 | 868.44 | 4708.94 | 0.13 | | | |
| 9788.00 | 89.86 | 177.84 | 5127.71 | -4694.52 | 870.87 | 4772.51 | 0.06 | | | |
| 9851.00 | 89.86 | 178.55 | 5127.86 | -4757.49 | 872.86 | 4835.04 | 1.13 | | | |
| 9914.00 | 89.65 | 178.74 | 5128.13 | -4820.47 | 874.35 | 4897.51 | 0.45 | | | |
| 9977.00 | 89.86 | 178.55 | 5128.40 | -4883.45 | 875.84 | 4959.98 | 0.45 | | | |

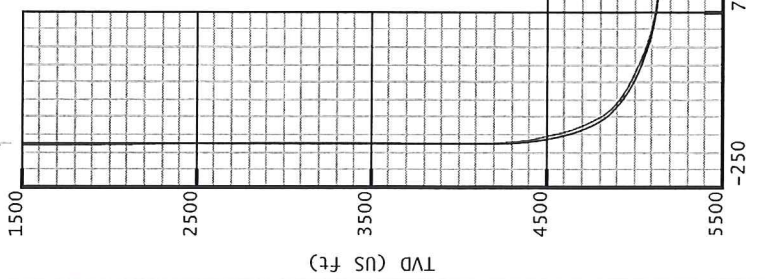
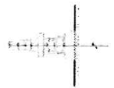
5D Survey Report

| Survey Points (Relative to Site centre, TVD relative to Drill Floor) | | | | | | | | | | |
|--|------------|-----------|----------------|----------------------|----------------------|---------------|----------------------|-----------------|--|--|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | N. Offset (US ft) | E. Offset (US ft) | VS (US ft) | DLS (°/100 US ft) | Comment | | |
| 10039.00 | 90.00 | 178.49 | 5128.47 | -4945.43 | 877.44 | 5021.47 | 0.25 | | | |
| 10102.00 | 91.05 | 179.13 | 5127.90 | -5008.41 | 878.75 | 5083.91 | 1.95 | | | |
| 10165.00 | 91.47 | 178.97 | 5126.51 | -5071.39 | 879.79 | 5146.30 | 0.71 | | | |
| 10228.00 | 91.26 | 178.34 | 5125.01 | -5134.35 | 881.27 | 5208.75 | 1.05 | | | |
| 10290.00 | 91.12 | 177.72 | 5123.72 | -5196.30 | 883.40 | 5270.30 | 1.02 | | | |
| 10353.00 | 90.28 | 177.35 | 5122.95 | -5259.24 | 886.11 | 5332.90 | 1.46 | | | |
| 10416.00 | 90.00 | 177.63 | 5122.80 | -5322.18 | 888.87 | 5395.52 | 0.63 | | | |
| 10479.00 | 90.00 | 178.17 | 5122.80 | -5385.14 | 891.18 | 5458.09 | 0.86 | | | |
| 10542.00 | 89.86 | 178.16 | 5122.88 | -5448.10 | 893.19 | 5520.63 | 0.22 | | | |
| 10588.00 | 89.30 | 178.28 | 5123.21 | -5494.08 | 894.62 | 5566.28 | 1.25 | Last WFT Survey | | |
| 10645.00 | 89.30 | 178.28 | 5123.91 | -5551.05 | 896.33 | 5622.84 | 0.00 | Proj. to TD | | |



Jellison A 3319 10-5H
 Nomac 52
 Comanche County, KS
 X= 1733819.14'
 Y= 198745.57'
 Plan 1 vs Actual

KB: 1904'
 GL: 1885'



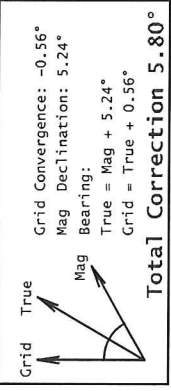
Plan Data for Jellison A 3319 10-5H

Dogleg Severity Unit: °/100.00ft

| MD | Inc | Az | TVD | +M/-S | +E/-W | Position | offsets | from Site centre |
|----------|-------|--------|---------|----------|--------|----------|---------|------------------|
| (USft) | (°) | (°) | (USft) | (USft) | (USft) | (USft) | (USft) | DLS Toolface |
| | | | | | | | | (DLSU) |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4198.87 | 0.00 | 0.00 | 4198.87 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4948.87 | 60.00 | 104.21 | 4819.12 | -87.92 | 347.14 | 140.05 | 8.00 | 104.2 |
| 5888.94 | 86.00 | 179.43 | 5133.39 | -755.44 | 815.71 | 871.46 | 8.00 | 86.0 |
| 6138.94 | 86.00 | 179.43 | 5130.83 | -1004.82 | 818.21 | 1118.28 | 0.00 | 0.0 |
| 6182.94 | 90.40 | 179.43 | 5152.21 | -1048.79 | 818.65 | 1161.79 | 10.00 | 0.0 |
| 10707.05 | 90.40 | 179.43 | 5120.63 | -5572.57 | 863.86 | 5639.13 | 0.00 | 0.0 |

Target Set Information:
 Name: Jellison A 3319 10-5H - T1
 TVD (USft) Northing Easting Lat Long
 PBHL 5120.63 193173.00 1734683.00 37°11'37.1" -99°24'38.9"
 Comment: 5160' TVD @ 90.4°

Plan Data for Jellison A 3319 10-5H
 Field: SandBridge Energy - Comanche County, KS S NAD 27 US FT
 Map Unit: USFT Vertical Reference Datum (VRD): Mean Sea Level
 Projected Coordinate System: NAD27 / Kansas South
 Well: Jellison A 3319 10-5H
 Type: Main-Well
 Lat: 37°12'32.08" N Azimuth: 171.19°
 Long: 99°24'50.27" W
 Magnetic Parameters:
 Model: Field Strength: Declination: Dip: Date:
 IGRF 51639(nT) 5.24° 65.10° 2014-03-10

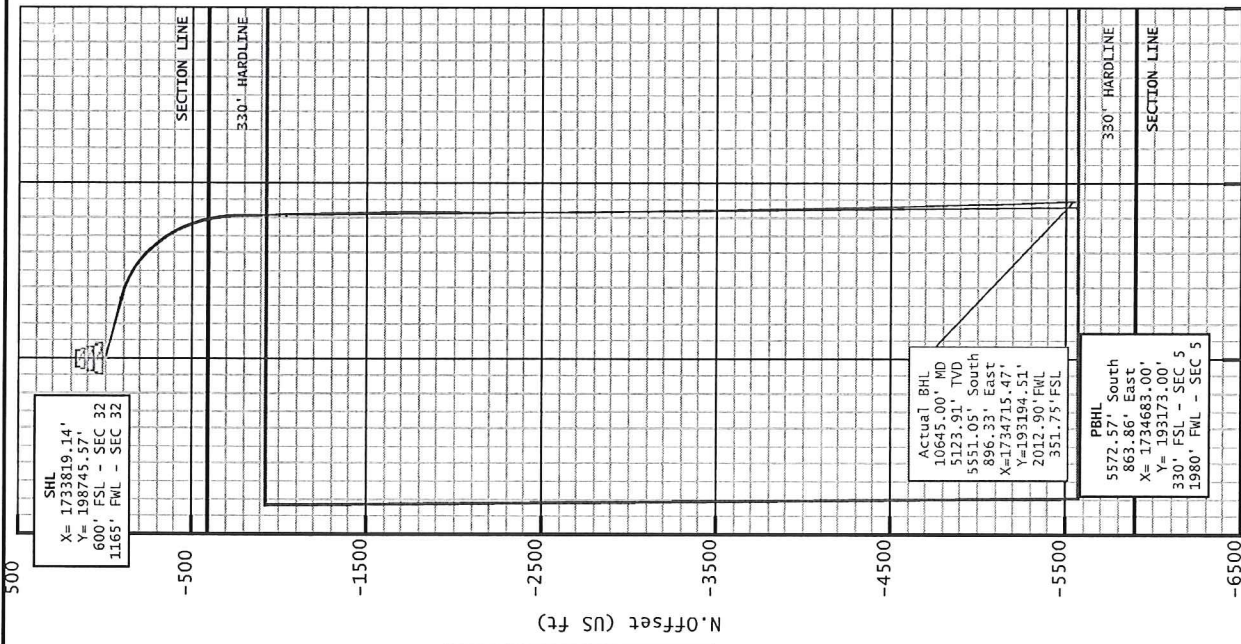


Jellison A 3319 10-5H
 Jellison A 3319 10-5H Actual



Proj. to TD
 10645.00' MD
 5123.91' TVD
 89.30' INC.
 178.28° AZH

Vertical Section 171.19° AZM



SHL
 X= 1733819.14'
 Y= 198745.57'
 600' FSL - SEC 32
 1165' FWL - SEC 32

Actual BHL
 10645.00' MD
 5123.91' TVD
 5551.05' South
 896.33' East
 X=1734715.47'
 Y=193194.51'
 2012.90' FWL
 351.75' FSL

PBH
 5572.57' South
 863.86' East
 X= 1734683.00'
 Y= 193173.00'
 330' FSL - SEC 5
 1980' FWL - SEC 5

E. Offset (US ft) (Scale: 1000USft/in)

Updated By: Lando Hilier Date: 04/02/2014
 Weatherford Drilling Services
 6525 N. Meridian Ste. #201
 Oklahoma City, OK 73116
 +1.405.773.1100 Main
 +1.405.773.1887 Fax