



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1134143



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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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P.O. Box 510
 Healdton, Ok 73438
 580-229-1776

Oilwell Cementers, Inc.

Invoice

Date	Invoice #
1/25/2013	30165-INT

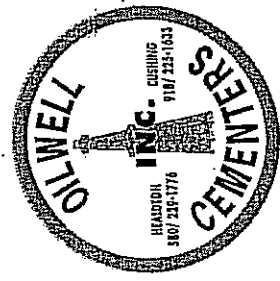
Terms	
Rep	PB

Bill To
 J & J LATERAL CORP.
 12 N. ARMSTRONG
 BIXBY, OK 74008

P.O. No.	J BIRK 1-B
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Hrs/Qty	Item	Description	Rate	Amount
450	CEC	Regular Cement	11.50	5,175.00T
125	FS	Flocele	2.50	312.50T
1,950	SAA	Salt	0.50	975.00T
1	LATCH7	LATCHDOWN 7 1/2"	400.00	400.00T
1	AFUFS7	AUTO FILL UP FLOAT	435.00	435.00T
450	DDUMP	Dump	4.00	1,800.00
3	PERMIT	Permits	94.25	282.75
1	OVERNIGHT	Overnight Charges	500.00	500.00T
1	PC7	7" PLUG CONTAINER	350.00	350.00
386	GG	Pickup Mileage Charge	2.00	772.00
579	GT	Truck Mileage	4.00	2,316.00
2,100	FT	Footage Charge	0.25	525.00
1	TRUCK	Truck	1,000.00	1,000.00
-1	CREDIT	***CREDIT***CREDIT***CREDIT***	-1,484.32	-1,484.32

DATE	1/25/13
TIME	
SALES	
DATE	
CK#	



Subtotal	\$13,358.93
Sales Tax (0.0%)	\$0.00
Balance Due	\$13,358.93

FED ID # 48-1214033
Shop # (620) 437-2661
Cellular # (620) 437-7582
Office # (316) 303-9515
Office Fax # (316) 263-0432

MC ID# 165290

Shop Address: 3613A Y Road
Madison, KS 66860

Customer:

ARMOUR MANAGEMENT, INC.
12 N ARMSTRONG
BIXBY, OK 74008

Hurricane Services, Inc.
Cementing & Circulating Division
250 N. Water, Suite 200
Wichita, KS 67202

Invoice Date: 1/20/2013
Invoice #: 0009063
Lease Name: J BIRK

Well #: 1-B

County: COFFEY

Date/Description	HRS/QTY	Rate	Total
1/16/13 See work ticket 100207 of BB			
Pump truck mileage	1.000	790.000	790.00
Class A cement	15.000	3.250	48.75
Calz 3%	53.000	14.150	749.95 T
Water truck #106	149.000	0.750	111.75 T
Bulk truck #202	4.000	84.000	336.00
5% Fuel surcharge	1.000	250.000	250.00
	1.000	114.330	114.33 T

Net Invoice 2,400.78
Sales Tax: (6.30%) 61.49
Total 2,462.27

All invoices are due upon receipt. Interest at the rate of 1 1/2% per month may be charged on all invoices not paid within 30 days from date of invoice.

WE APPRECIATE YOUR BUSINESS!

GEOLOGICAL REPORT

FOR

Well: J Birk 1-B

API No. 031-23359-01

Operator: J AND J LATERAL CORPORATION
12 N. Armstrong
Bixby, Oklahoma 74008

Owner: Mr. Steven Jones

Offices In: Bixby, Oklahoma and Gridley, Kansas

Surface Location: 243' FEL & 135' FSL OF NW/4
Section 28- T 22S- R14E
Coffey County, Kansas

Directional Lateral: Near the town of Gridley, Kansas
About ¼ Mi. E and 1 Mi. N. of Gridley
315° Azimuth (a.k.a. 45° W of North)
To a maximum measured depth (MD)
Of 3,147' which is 1,745' true vertical depth
(TVD) at a bottom hole location 1,260' N
and 1,295' W of the surface location.
The vertical distance (map distance from
surface location to bottom hole location) is
1,807'.

Ground Level: All measurements from GL- 1,134'

Time on Location:

January 17 through 28, 2013- through intermediate casing
 Temporary release due to equipment problems
 February 1 through 3, 2013- drilling of the horizontal well bore.

Casing, bit record, mud weight, and sample quality:

10 1/2' casing at 47'
 12 1/4' hole to 879' – the kick off point
 9 1/2 ' hole through the curved hole to 2,071'
 Tangent for down hole pump 1,769' MD (~1,600' TVD)
 to 1,944' MD (~1,689'TVD)
 Bottom of Curve- 2,271' MD (1,773'TVD)
 Intermediate Casing- 7' to 2,057' (TVD ~1,773')
 About 18' into Mississippi Limestone
 A 9 1/2' tricone button bit was used to 2,057 MD
 Gelled mud was used with 43 viscosity and 9.6 lb./gal. weight
 resulting in excellent samples through intermediate
 casing.

A 6 1/2' six` blade PDC bit was used to 3,147'(MD- TD on 2/3/2013)
 resulting in samples that were ground to fine sand size
 material. Fresh water, MW 8.7 lb./gal. and Vis. 32+ was used
 for the remainder of the hole. These mud properties have poor
 lifting properties and, was used from intermediate casing point
 to total depth- 3,147 MD (1,745 TVD). However, useful
 information was obtained for lithology, sample cut,
 fluorescence, and occasionally the alizarine red test (estimate
 of how much carbonate was highly dolomitic).

The EOC (end of the curve) also the maximum TVD of the well
 was 1,777' (MD 2,271'). After this depth, the well deviated
 upward at a slight angle toward the surface and leveled off into
 a horizontal wellbore for all practical purposes.
 Production casing was 6 1/2' slotted liner from TD or Max. MD, 3,147'
 (1,745' TVD) to 2,555' and 4 1/2" 1160 lb./ft non slotted casing
 was used through the remainder of the hole. Therefore, there
 is 592' of slotted liner in this well.

LOGGING

Electric Logs: There were no electric logs run on this well.

Mud Log:

MBC Well Logging, Inc.

Mudlogger-

Troy Fowler

316 516 3618

troy_fowler@hotmail.com

Geologist on Location-

James B. Jackson Consulting Geologist

11017 Saint Charles Avenue

Oklahoma City, Oklahoma 73162

jackson6332@sbcglobal.net

H 405 722 1237

C and O 405 818 8656

Directional Services:

An excellent Gamma Ray (GR) and Rate of Penetration (ROP) curve was kept and plotted by the directional services. The GR measuring device on the directional tool is located 60' behind the bit. Therefore, the last 60' of wellbore was not logged. The measured depth was projected back to vertical to make a TVD log. This is an excellent log to correlate with. The log is attached.

MS Guidance Services

7821 W. Will Rogers Blvd.

Fort Worth, Texas 76140

MWD Field Specialist

J. D. Christensen- Supervisor

Greg Hammonds- Crew

Office 817 568 1038

Cell 469 446 6559

MS Directional Drillers

7821 Will Rogers Blvd.

Fort Worth, Texas 76140

Wayne Crowell

Rupert Lopez

Drilling Contractor:

Kan Drill- Rig No. 1**Important Points Along the Lateral Wellbore**

Kick off Point- 879'

Encounter Top Mississippi Limestone

MD 2,012'

TVD 1,723'

X 481' N

Y 480' W

Vertical Distance (linear or map distance in feet from surface location to top) 680'

End of the Curve (EOC) -deepest point in hole

MD 2,271'

TVD 1,773' (-693)

X 650' NM

Y 650' W

Vertical Distance 933'

Top of Slotted Liner

MD 2,555'

TVD 1,750'

X 841' N

Y 847' W

Vertical Distance 1,213'

Bottom of Slotted Liner and TD of well

MD 3,147'

TVD 1,945'

X 1,260' N

Y 1,295' W

Vertical Section 1,807'

Formation Tops and Discussion

Because the well was originally intended to be completed in the Mississippi Limestone in the lateral section, the upper formation tops and shows are of minor importance. This well was in close proximity to existing wells that produce/have produced in the shallower Pennsylvanian Formations. The first logging by mudlogger, MWD services (ROP and GR) was in the Lansing Formation.

All logs measured from Ground Level- 1,134'

Formation	Measured Depth (MD)	True Vertical Depth (TVD)	Subsea Depth	Birk #3-A
In Lansing	830'			
Kick off Point	879'		+157'	
Shark Shale	977'		+122'	
Hushpuckney Shale	1,012'			
Base of Kansas			+112'	-109'
City Unconformity	1,022'	1,166'	-32'	
Altamonty LS	1,180'	1,205'	-71'	
Pawnee	1,220'	1,258'	-124'	
Ft. Scott	1,287'	1,300'	-166'	
Lexington Coal	1,335'	1,338'	-207'	
Summit Coal	1,388'	1,346'	-212'	-203'
Mulkey Coal	1,394'			
Squirrel Sand—Oil odor, instant streaming cut (Prue Equivalent)	1,400'	1,360'	-226'	
Lower Squirrel Sd—Slight gas increase, instant streaming cut	1,446'	1,402'	-268'	
Bevier Coal	1,516'	1,440'	-306'	
Crowberg Coal	1,530'	1,451'	-317'	-309'
Mineral Coal	1,567'	1,482'	-348'	
Scammon Coal	1,602'	1,502'	-368'	
Tebo Coal	1,672'	1,549'	-415'	-396'
AW Coal		1,688'	-534'	
CW Coal		1,678'	-544'	
Riverton Coal	1,928'	1,683'	-549'	-557'
Coal A		1,692'	-558'	
Coal B		1,695'	-561'	
Chatt (Sample and GR)	1,961'	1,700'	-566'	-567'
Mississippi Limestone				
Unconformity	2,012'	1,723'	-589'	-578'
Deepest point in hole before go back up(EOH)	2,271'	1,773'	-644'	TD-602'

Hot Radioactive shales in Miss. Ls -- These shales are not known to be correlative in the entire area of the project. However, they may be of importance in the project area.

2,200'-2,236' same as interval 2,877 2,898

2,404'- 2,410' same as interval 2,795'- 2,805'

2,522'- 2,530' same as interval 2,642- 2,650'

2,935' -- 2,955' thought to be equivalent to hot shale at the top of Miss L.S perhaps 2,000'- 2,012'

Total Depth-

End of Hole 3,147'

1,745'

-611

Indications of Hydrocarbons With a Discussion of Pressure in the Mississippi Limestone.

Chatt- 1,970' - 2,012'. This zone was opaque to clear chert and unconsolidated quartz sand grains with no visible fluorescence or cut. No gas was detected by the Hotwire or Chromatograph; however, the instruments might not have been working correctly at the time of drilling.

Mississippi Limestone Interval- 2,012-2,070'. The Hotwire and Chromatograph were both working when the upper part of the Mississippi Limestone was drilled. The Hotwire varied from 5 to 10 units. Traces of C2 (ethane), C3(propane), and C4(butane) were detected. Ninety- five percent of the gas was methane. C2, C3, C4 are indicative of hydrocarbons. A slight yellow to green cut was obtained at 2,018' and good yellow cuts were obtained at 2,054, 2,056, 2,060, 2,068, and 2,070. Cuttings most commonly showed yellow fluorescence. A rainbow show of oil was noted on the pit at 2,090'. Rocks were hard to dense brown to white limestone with traces of oolite and allochemical ghosts (grains of origin unknown but resembling oolite or fossils) at the top of the interval and graded downward into dolomitic rocks that showed some sucrosic texture. Better cuts were obtained from dolomite. Correlation to other wells in the area with CNL-FDC logs show the same type of lithology. Shows in the dolomitic rock lead me to believe that higher porosity dolomitic zones will have better oil saturations.

It was expressed by many oil field personnel when the well was commenced that there would be no gas in the Mississippi Limestone. The whole east central Kansas area is known to exhibit very little bottom hole pressure in the Mississippi Limestone. The upper part of the interval was drilled with 46 viscosity and 9.6 lb./gallon mud. Good to excellent cuttings were obtained while drilling this part of the well.

The pressure exerted on the formation at 1,740' TVD should have been:

P = 0.052 X weight (lb. /gallon) X D (depth TVD)

P = 0.052 X 9.6 X 1,740'

P = 868 pounds

The hydrostatic gradient for fresh water is 0.433 lb./ft which is usually used in the midcontinent to determine what bottom hole pressure should be. Fresh non-mineralized drinking water commonly weighs about 8.5 pounds/gallon. This number can increase due to salts in the groundwater and/or is also affected by temperature at depth, total dissolved solids (TDS), and total suspended solids (TDS). Fresh water has poor lifting qualities and the PDC bits ground rocks into sand size material. In this area:

Hydrostatic Pressure = 0.433 X 1,740'

Hydrostatic Pressure = 753 pounds

The Mississippi Limestone interval between MD 2,057' (1,773' TVD) was drilled with fresh water with mud weight 8.7 lb./gal. and viscosity 32+.

The pressure exerted on the formation in the horizontal portion of the hole is:

P = 0.052 X 8.7 X 1,745'

P = 789 pounds

As is shown, drilling fluid in all parts of the Mississippi Limestone interval overbalanced the formation pressure. Even so, I am under the impression that a typical Mississippi Limestone virgin bottom hole pressure in this area is much lower than the calculated pressure.

This low bottom hole pressure and overbalanced drilling mud systems in the Mississippi Limestone in this region are the probable causes of finding no shows on mud logging equipment in the area or at least very minor shows. We had a minor amount of heavy gas indicating oil which was confirmed by the Hotwire and Chromatograph readings. Therefore, I conclude that the use of a mud logger and the reason for drilling this well was successful. The Mississippi Limestone is a saturated rock, but it has been flushed of most hydrocarbons near the wellbore by drilling fluids.

Drill pipe could not shove directional tools deeper into the lateral hole and it was decided to increase mud pressure by exchanging a duplex mud pump which produced about 700 pounds of pressure with a triplex mud pump that could produce about 1,000 pounds of pressure. At 2,070', seven-inch intermediate casing was run to 2,057'. Casing and cement at this point in the well history, now covers the Chatt which yields water when acidizing the upper part of the Mississippi Limestone.

After several days of work repairing and replacing the duplex mud pump with a triplex mud pump, drilling was once again commenced on February 1, 2013. A 6 1/2 inch six blade PDC bit was used on the remainder of the well. Some shale from radioactive shale beds shown by the gamma ray were never seen in the samples. However, cut, fluorescence, gas bubbles, percentage dolomite by Alizarine Red test could all be determined, and was run. The radioactive shale beds allowed questionable correlation within the Mississippi Limestone as the wellbore curved upward, and the hot radioactive beds were used to help determine the interval of rock being drilled. The correlations were previously discussed with well to tops.

Excessive cuttings were removed from the mud pit at this point. When this occurred, a very strong odor of oil and gas was noticed by many personnel on location. Personnel noticed a slight sheen of oil on the pits at this point in the well history. The smell must have come from Mississippi Limestone cuttings.

Gas bubbles were visible in cuttings below 2,430'. Hotwire averaged 5 units of gas, but occasionally it was greater. C1, C2, C3, and C4 were noted in trace amounts to the bottom of the hole. Good fluorescence and yellow cut were obtained on white to brown dolomitic cuttings. from 3,070' to 3,147', TD, and Hotwire and Chromatograph readings showed a slight increase. Bright yellow cuts were obtained on samples in the last 100' of the hole. These cuts lead one to believe that two wells drilled from the northwest to the southeast toward this wellbore would also encounter excellent oil saturations.

Slotted liner was used as production casing from TD, 3,147', back up hole to 2,555'; a length of 592'. Four and one half inch 1,160 lb./ft. casing was placed above the slotted liner. By using slotted liner, no cement could be shoved into (frack with cement) the low pressure Mississippi Limestone reservoir. This should allow better results after acidizing and ultimately higher production rates.

Attachments and Meaning

Marked MBC Well Log showing sample descriptions, shows casing data, slotted liner, mud properties, drilling information, MD, TVD, and subsea elevation.

MS Directional Total Well Directional Survey

MS Guidance Services Total Well Directional Survey

5 inch TVD log from Start to end of hole. This log is a GR and ROP that writes over itself during directional drilling. It shows the distance from the Top of Mississippi Limestone to the well bore.

5 inch TVD log from Start to bottom of curve. This log is a GR and ROP that shows TVD to the bottom of the curve. It is excellent log for vertical wellbore correlation.

5 inch MD log from start of hole to end of hole. At the bottom of the hole, one can see the GR survey which ends 60' above the bottom of the hole or bit. Rate of Penetration, ROP, and slotted liner is plotted, and all directional surveys showing MD, TVD, and subsea elevation are present.

Recommendation

Two additional wells should be drilled from the north in the general direction of the J. Birk 3-A which is on a very strong structural nose or a structural closure. Structural top comparisons between the J. Birk 1-B and the J. Birk 3-A are shown in the formation top table.

Disclaimer:

I, James B. Jackson, Consulting Geologist, have no working interest in this well or any other wells, leases, or production in this area.

Respectfully submitted,

James B. Jackson, Consulting Geologist

AAPG/DPA- Certified Petroleum Geologist Number- 2018

SIPES Number-2990

Registered Geologist- California, Arkansas, Texas

February 11, 2013

DRAFT DOCUMENT

J BIRK 1-B

GL 1,134'

J and J Lateral Corp.

Coffey County, Kansas (NAD 83)

J. Birk

1B

Wellbore #1

Survey: MS MWD

Standard Survey Report

04 February, 2013



Company: J and J Lateral Corp	Local Co-ordinate Reference: Well 1B
Project: Coffey County, Kansas (NAD 83)	ITVD Reference: WELL @ 1141.00usft (Can Rig #1)
Site: J. Birk	MD Reference: WELL @ 1141.00usft (Can Rig #1)
Well: 1B	North Reference: Grid
Wellbore: Wellbore #1	Survey/Calculation Method: Minimum Curvature
Design: Surveys	Database: Well Planning Control

Project: Coffey County, Kansas (NAD 83) **System Datum:** Mean Sea Level

Map System: US State Plane 1983

Geo Datum: North American Datum 1983

Map Zone: Kansas Southern Zone

Well: 1B

Well Position +N/S 0.00 usft **Northing:** 1,836,930.91 usft **Latitude:** 38° 4' 43.0000 N

 +E/W 0.00 usft **Easting:** 2,062,055.00 usft **Longitude:** 95° 53' 42.000 W

Position Uncertainty 0.00 usft **Wellhead Elevation:** usft **Ground Level:** 1,135.00 usft

Wellbore: Wellbore #1

Magnetics (Model Name Sample Date Declination Dip Angle Field Strength Field Strength (mT))

 WMM_2010 2013/01/16 3.07 66.24 52.425

Design: Surveys

Audit Notes: 1.0 Phase: ACTUAL Tie On Depth: 0.00

Vertical Section:

Depth From (ITVD) (usft)	+N/S (usft)	+E/W (usft)	Direction (°)
0.00	0.00	0.00	315.00

Survey Program Date: 2013/02/04

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
119.00	3,147.00	MS MWD (Wellbore #1)	MWD	MWD - Standard

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119.00	0.20	80.50	119.00	0.03	0.20	-0.12	0.17	0.17	0.00
435.00	0.10	236.90	435.00	-0.03	0.52	-0.38	0.09	-0.03	49.49
783.00	0.10	327.70	783.00	0.07	0.10	-0.03	0.04	0.00	26.09
815.00	0.10	23.50	815.00	0.11	0.10	-0.01	0.29	0.00	174.38
846.00	0.10	65.60	846.00	0.15	0.13	0.01	0.23	0.00	135.81
877.00	0.60	329.80	877.00	0.30	0.08	0.16	1.99	1.61	-309.03
909.00	5.20	315.30	908.95	1.48	-1.03	1.77	14.44	14.38	-45.31
941.00	10.80	314.40	940.62	4.61	-4.19	6.22	17.50	17.50	-2.81
973.00	13.80	311.50	971.89	9.24	-9.20	13.03	9.57	9.38	-9.06
1,005.00	14.90	310.40	1,002.89	14.43	-15.19	20.94	3.54	3.44	-3.44
1,036.00	16.00	310.00	1,032.77	19.76	-21.50	29.17	3.56	3.55	-1.29
1,068.00	18.40	310.30	1,063.33	25.86	-28.73	38.60	7.51	7.50	0.94
1,099.00	21.40	311.00	1,092.48	32.74	-36.73	49.12	9.71	9.68	2.26
1,131.00	24.20	312.40	1,121.98	41.00	-45.98	61.50	8.91	8.75	4.38

MS Energy Services
Survey Report



Company:	J and J Lateral Corp.	Local Co-ordinate Reference:	Well 1B
Project:	Coffey County, Kansas (NAD 83)	TVD Reference:	WELL @ 1141.00usft (Can Rig #1)
Site:	J. Birk	MD Reference:	WELL @ 1141.00usft (Can Rig #1)
Well:	1B	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Well Planning Contour

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	N/S (usft)	E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,162.00	26.20	311.70	1,150.03	49.83	-55.78	74.88	6.52	6.45	-2.26
1,193.00	27.50	311.00	1,177.88	59.08	-66.29	88.65	4.32	4.19	-2.26
1,224.00	29.10	312.70	1,204.98	68.89	-77.24	103.33	5.78	5.16	5.48
1,256.00	30.90	314.80	1,232.89	79.96	-88.79	119.32	6.51	5.63	6.56
1,287.00	33.10	316.10	1,258.98	91.67	-100.30	135.74	7.44	7.10	4.19
1,319.00	35.00	316.90	1,285.49	104.67	-112.64	153.65	6.10	5.94	2.50
1,351.00	36.80	316.20	1,311.41	118.28	-125.54	172.41	5.77	5.63	-2.19
1,383.00	38.70	316.70	1,336.71	132.48	-139.04	191.99	6.01	5.94	1.56
1,414.00	39.20	316.80	1,360.82	146.68	-152.39	211.47	1.63	1.61	0.32
1,445.00	40.00	316.70	1,384.71	161.07	-165.93	231.22	2.59	2.58	-0.32
1,477.00	41.10	316.40	1,409.02	176.17	-180.24	252.02	3.49	3.44	-0.94
1,509.00	41.70	316.50	1,433.02	191.51	-194.82	273.17	1.89	1.88	0.31
1,541.00	42.70	316.30	1,456.73	207.08	-209.64	294.66	3.15	3.13	-0.63
1,571.00	44.50	315.60	1,478.45	221.94	-224.02	315.35	6.21	6.00	-2.33
1,602.00	46.70	314.90	1,500.14	237.67	-239.62	337.49	7.28	7.10	-2.26
1,632.00	48.60	314.00	1,520.35	253.19	-255.45	359.86	6.71	6.33	-3.00
1,663.00	51.00	314.40	1,540.36	269.70	-272.42	383.34	7.80	7.74	1.29
1,695.00	53.40	314.90	1,559.97	287.47	-290.40	408.62	7.67	7.50	1.56
1,726.00	55.60	315.30	1,577.97	305.35	-308.22	433.86	7.17	7.10	1.29
1,758.00	58.10	315.30	1,595.47	324.39	-327.06	460.64	7.81	7.81	0.00
1,790.00	59.00	315.70	1,612.16	343.86	-346.19	487.94	3.01	2.81	1.25
1,822.00	59.10	315.70	1,628.62	363.50	-365.36	515.38	0.31	0.31	0.00
1,854.00	59.90	316.00	1,645.10	383.18	-384.47	542.81	1.02	-0.63	0.94
1,885.00	58.70	316.30	1,661.16	402.30	-402.84	569.32	1.05	-0.65	0.97
1,917.00	58.70	316.00	1,677.79	422.02	-421.78	596.86	0.80	0.00	-0.94
1,948.00	60.00	315.80	1,693.59	441.17	-440.34	623.32	4.23	4.19	-0.65
1,980.00	63.10	314.80	1,708.83	461.17	-460.13	651.45	10.07	9.69	-3.13
2,012.00	66.30	314.00	1,722.51	481.40	-480.80	680.38	10.25	10.00	-2.50
2,066.00	70.80	308.90	1,748.52	526.95	-532.44	749.10	8.93	6.22	-6.89
2,118.00	73.40	310.40	1,759.32	546.38	-555.88	779.42	9.00	7.81	4.69
2,149.00	77.10	311.00	1,767.22	565.93	-578.61	809.31	12.08	11.94	1.94
2,180.00	81.20	311.70	1,773.05	586.04	-601.46	839.69	13.41	13.23	2.26
2,211.00	86.00	312.30	1,776.50	606.65	-624.34	870.44	15.60	15.48	1.94
2,243.00	90.40	313.20	1,777.51	628.35	-647.82	902.39	14.03	13.75	2.81
2,274.00	93.80	313.90	1,776.37	649.69	-670.27	933.36	11.20	10.97	2.26
2,305.00	93.80	313.00	1,774.32	670.97	-692.73	964.28	2.80	0.00	-2.90
2,337.00	94.20	313.10	1,772.09	692.76	-716.06	996.18	1.29	1.25	0.31
2,368.00	94.40	312.80	1,769.76	713.82	-738.68	1,027.07	1.16	0.65	-0.97
2,399.00	94.60	312.60	1,767.33	734.78	-761.39	1,057.95	0.91	0.65	-0.65
2,429.00	94.80	312.50	1,764.87	755.00	-783.42	1,087.82	0.74	0.67	-0.33
2,461.00	95.20	313.10	1,762.08	776.66	-806.81	1,119.68	2.25	1.25	1.88
2,492.00	95.50	313.30	1,759.19	797.78	-829.31	1,150.53	1.16	0.97	0.65
2,524.00	95.80	313.80	1,756.01	819.74	-852.37	1,182.38	2.25	1.25	1.88
2,555.00	96.00	314.00	1,752.80	841.14	-874.57	1,213.19	0.45	0.32	0.32

MS Energy Services
Survey Report



Company:	J and J Lateral Corp.	Local Co-ordinates Reference:	Well 1B
Project:	Coffey County, Kansas (NAD 83)	ITVD Reference:	WELL @ 1141.00usft (Can Rig #1)
Site:	J. Blirk	MD Reference:	WELL @ 1141.00usft (Can Rig #1)
Well:	1B	North Reference:	Grid
Wellbore #1:	Wellbore #1	Survey/Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Well Planning Contour

Survey	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
	2,586.00	95.60	314.40	1,749.67	882.64	-896.68	1,244.03	1.82	-1.29	1.29	
	2,618.00	94.20	314.60	1,746.93	884.99	-919.42	1,275.91	4.42	-4.38	0.63	
	2,650.00	91.80	314.50	1,745.28	907.41	-942.19	1,307.86	7.51	-7.50	-0.31	
	2,681.00	89.10	314.90	1,745.02	929.21	-984.22	1,338.86	8.80	-8.71	1.29	
	2,712.00	89.10	315.70	1,745.50	951.24	-986.02	1,369.85	2.58	0.00	2.58	
	2,744.00	89.40	315.90	1,745.92	974.18	-1,008.33	1,401.85	1.13	0.94	0.63	
	2,775.00	91.30	316.30	1,745.73	996.52	-1,029.82	1,432.84	6.26	6.13	1.29	
	2,806.00	92.30	315.90	1,744.76	1,018.84	-1,051.31	1,463.82	3.47	3.23	-1.29	
	2,838.00	92.70	314.80	1,743.36	1,041.58	-1,073.78	1,495.78	3.65	1.25	-3.44	
	2,869.00	92.70	314.90	1,741.90	1,063.42	-1,095.73	1,526.75	0.32	0.00	0.32	
	2,900.00	93.00	314.80	1,740.36	1,085.26	-1,117.68	1,557.71	1.02	0.97	-0.32	
	2,931.00	92.40	314.50	1,738.90	1,107.02	-1,139.71	1,588.68	2.16	-1.94	-0.97	
	2,962.00	88.00	313.90	1,738.79	1,128.63	-1,161.93	1,619.67	14.32	-14.19	-1.94	
	2,994.00	87.20	313.60	1,740.13	1,150.74	-1,185.02	1,651.63	2.67	-2.50	-0.94	
	3,025.00	87.30	313.50	1,741.62	1,172.07	-1,207.46	1,682.58	0.46	0.32	-0.32	
	3,056.00	87.80	314.40	1,742.95	1,193.56	-1,229.76	1,713.55	3.32	1.81	2.90	
	3,087.00	89.00	315.40	1,743.81	1,215.44	-1,251.71	1,744.54	5.04	3.87	3.23	
	3,147.00	89.00	315.40	1,744.86	1,258.15	-1,293.83	1,804.53	0.00	0.00	0.00	
	Projection to TD-3147.00 MD										

Survey Annotations	Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/S (usft)	+E/W (usft)	Comment
	3,147.00	1,744.86	1,258.15	-1,293.83	Projection to TD-3147.00 MD

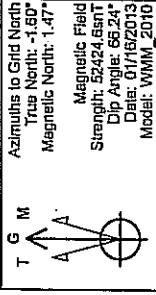
J and J Lateral Corp.

Company: J and J Lateral Corp.
 Site: J. Birk
 Well: 1B

Project: Coffey County, Kansas (NAD 83)
 Rig Name: Can Rig #1



Planning: 936.442.2500 Fax: 936.442.2515
 Operations: 724.484.7550 Fax: 724.484.0326

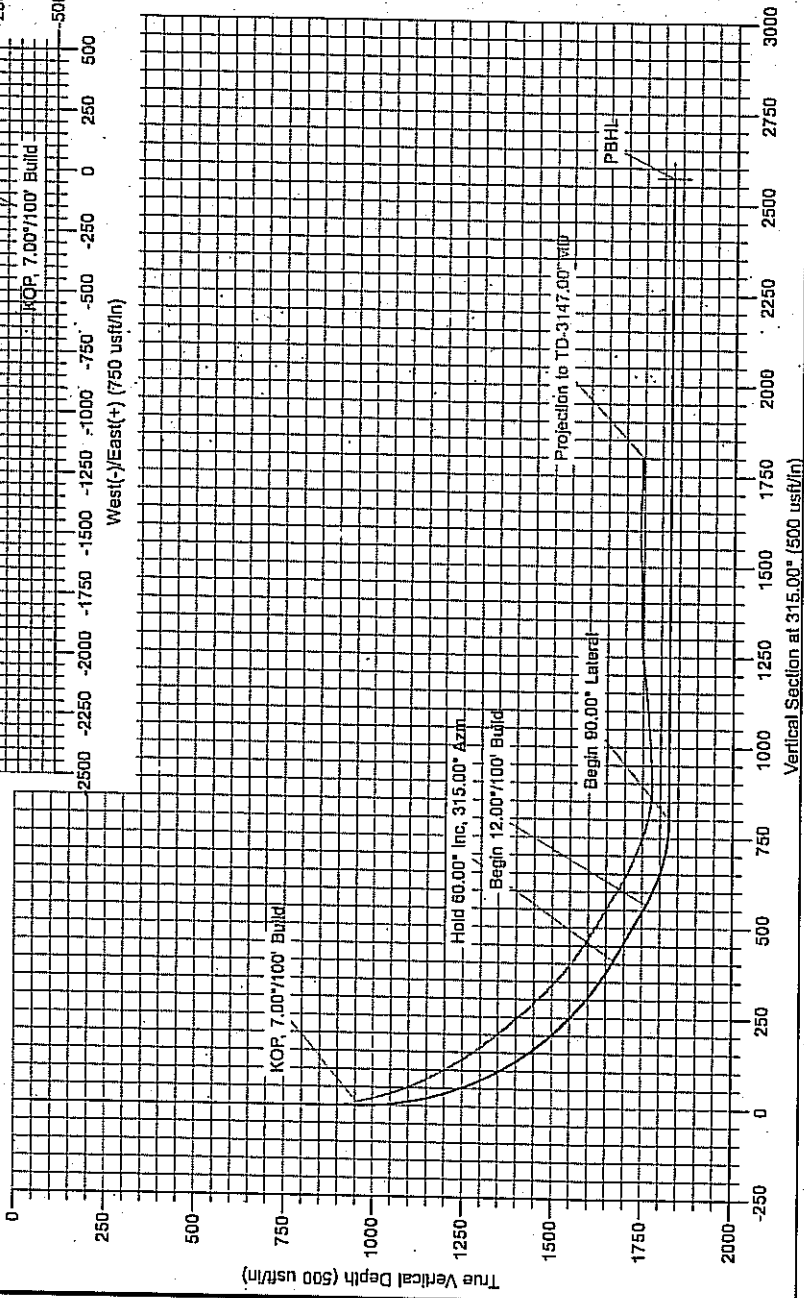
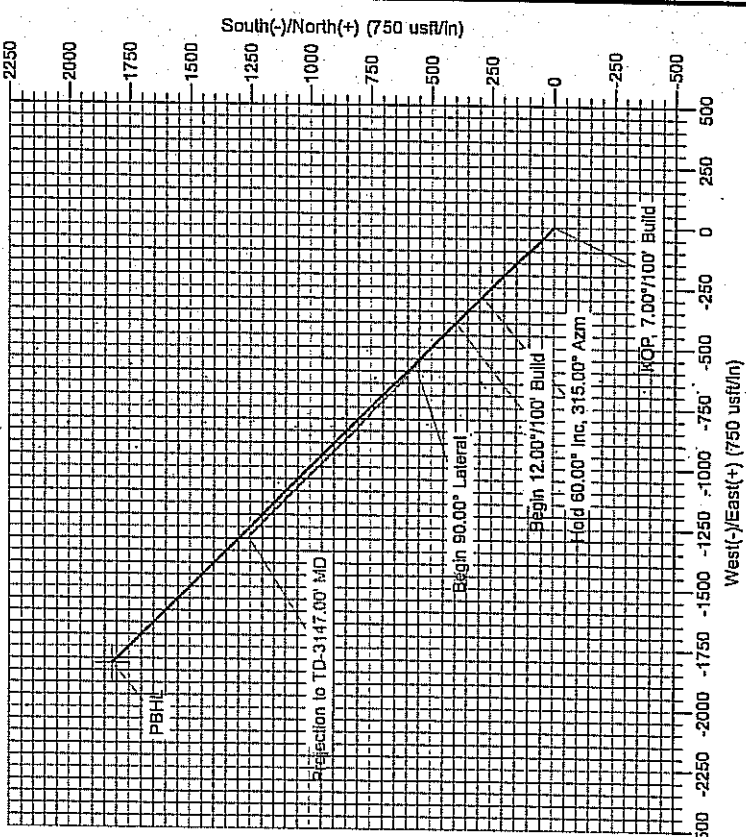


US State Plane 1983
 Kansas Southern Zone

Created By: BDJ
 Date: 14:07, February 04 2013
 Plan: Design #2

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
962.16	0.00	0.00	962.16	0.00	0.00	0.00	0.00	KOP 7.00°/100' Build
1819.32	60.00	315.00	1671.03	289.39	-289.39	409.26	409.26	Hold 60.00° Inc, 315.00° Azm
1999.32	60.00	315.00	1761.03	399.61	-399.61	565.14	565.14	Begin 12.00°/100' Build
2249.32	90.00	315.00	1825.00	568.42	-568.42	803.87	803.87	Begin 90.00° Lateral
4016.39	90.00	315.00	1825.00	1819.34	-1819.34	2572.94	2572.94	PBHL



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by MS Energy are at the sole risk and responsibility of the customer. MS Energy is not responsible for the accuracy of this schematic or the information contained herein.

se@armourmanagementinc.com

From: Deanna Garrison [d.garrison@kcc.ks.gov]
Sent: Friday, April 26, 2013 2:03 PM
To: se@armourmanagementinc.com
Subject: RE: aco-1

You can mail them to my attention. But in the future they need to be scanned and e-mailed. The logging will do this for you. If you have any questions please call.

From: se@armourmanagementinc.com [mailto:se@armourmanagementinc.com]
Sent: Friday, April 26, 2013 12:04 PM
To: Deanna Garrison
Subject: RE: aco-1

Ref: J Birk 1B - Well Completion Form
 We only have the paper logs for the final logs. Do you want these scanned in and emailed to you or mailed to you?
 Thank you,
 Steve Jones

From: Deanna Garrison [mailto:d.garrison@kcc.ks.gov]
Sent: Thursday, April 18, 2013 11:32 AM
To: se@armourmanagementinc.com
Subject: aco-1

Well Completion Form (ACO-1) Attachments:

Scan the following in .pdf format and attach them to the KOLAR ACO-1 before submitting it:

- ? Cement Tickets
- ? Drill Stem Tests
- ? Geological Well Report

For Mississippi horizontal wellbores also scan the following in .pdf format and attach:

- ? A directional survey indicating the final path of the horizontal wellbore.
 - ? A plat map depicting the well as it is drilled.
1. For horizontal wellbores completed open hole, the plat must depict the surface location, the point at which the wellbore encounters the producing formation (depth and distance from the nearest lease or unit boundary line), any isolation packers and the terminus of the wellbore (depth and distance from the nearest lease or unit boundary line). The lease and unit boundaries must be clearly depicted. Include GPS latitude and longitude readings for each point and specify which GPS planar projection was used to determine any footages listed on the map.
 2. For cased horizontal wellbores, upload a plat that shows the well as it is drilled, including the surface location, the point the wellbore enters the producing formation (depth and distance from the nearest lease or unit boundary line), the location of the first perforation (depth and distance from the nearest lease or unit boundary line), the location of the last perforation (depth and distance from the nearest lease or unit boundary line), and the terminus of the wellbore (depth and distance from the nearest lease or unit boundary line). The lease and unit boundaries must be clearly depicted. Include GPS latitude and longitude readings for each point and specify which GPS planar projection was used to determine any footages listed on the map.
- ? All operators must certify that the information contained on the plat depicting the well as drilled is accurate. This is accomplished by checking the Certify box when you submit your ACO-1. Furthermore, all operators must retain the well's completion information depicting how the wellbore was perforated for the life of the well and make it available upon Commission request.

Email the following to kcc-well-logs@kcc.ks.gov:

- ? Final Electric Logs
- ? Final Radioactivity Log
- ? Final Logs run to obtain Geophysical Data

NOTE: If electronic well logs are available, these files must be submitted to the Conservation Division in lieu of paper logs.
 Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Deanna Garrison, Research Analyst
 Production Department
 Kansas Corporation Commission
 Phone (316) 337-6209

4/29/2013

MAILING
 4-29-13