



KANSAS CORPORATION COMMISSION 1100381
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34357
Name: Atlas Operating LLC
Address 1: 15603 Kuykendahl, Ste 200
Address 2: _____
City: HOUSTON State: TX Zip: 77090 + _____
Contact Person: Zafar Ullah
Phone: (281) 893-9400
CONTRACTOR: License # 34357
Name: Atlas Operating LLC
Wellsite Geologist: Saman Sharifaie
Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- 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: _____ Plug Back Total Depth _____

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

ENHR Permit #: _____

GSW Permit #: _____

<u>08/15/2012</u>	<u>09/04/2012</u>	<u>10/13/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-055-22170-00-00

Spot Description: _____
E2 SW SE NE Sec. 20 Twp. 22 S. R. 33 East West
2310 Feet from North / South Line of Section
940 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Finney
Lease Name: Garden City Well #: 18-20
Field Name: Damme

Producing Formation: Morrow
Elevation: Ground: 2886 Kelly Bushing: 2894
Total Depth: 4900 Plug Back Total Depth: 4866
Amount of Surface Pipe Set and Cemented at: 340 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2682 Feet
If Alternate II completion, cement circulated from: 4900
feet depth to: 0 w/ 1000 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 0 ppm Fluid volume: 0 bbls
Dewatering method used: Evaporated
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: Deanna Gantor Date: 11/28/2012



1100381

Operator Name: Atlas Operating LLC Lease Name: Garden City Well #: 18-20
 Sec. 20 Twp. 22 S. R. 33 East West County: Finney

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 Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner Shale	3800	-906
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lansing	3842	-948
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cherokee	4454	-1560
List All E. Logs Run:		Morrow Shale	4641	-1747
Attached		St Genevieve	4676	-1782
		St Louis	4727	-1833

CASING RECORD <input checked="" 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
Surface	12.25	8.625	24	344	A	225	CC 3 % , Gel 2 %
Production	7.875	4.50	10.50	4900	Asc, Lite, C	1000	gilsonite 5#,fto seal .25 #

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
4			
4	4652-4658		4652-4658
4	4728-4732		4728-4732

TUBING RECORD: Size: <u>2.375</u> Set At: <u>4775</u> Packer At:		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>10/20/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf
		Water Bbls.
		Gas-Oil Ratio
		Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input checked="" 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 checked="" 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: <u>4652-4732</u>
--	--	--

Form	ACO1 - Well Completion
Operator	Atlas Operating LLC
Well Name	Garden City 18-20
Doc ID	1100381

All Electric Logs Run

Dual Induction Log
Compensated Neutron Density
Microlog
Cbl



PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

346038
346020

INVOICE

Invoice Number: 132348
Invoice Date: Aug 15, 2012
Page: 1



RECEIVED AUG 27 2012

Bill To:
Atlas Operating
15603 Kuykendahl Suite #200
Houston, TX 77090-3655

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Atlas	Garden City #18-20	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Aug 15, 2012	9/14/12

Quantity	Item	Description	Unit Price	Amount
225.00	MAT	Class A Common	16.25	3,656.25
4.00	MAT	Gel	21.25	85.00
8.00	MAT	Chloride	58.20	465.60
243.30	SER	Cubic Feet	2.10	510.93
832.49	SER	Ton Mileage	2.35	1,956.37
1.00	SER	Surface	1,125.00	1,125.00
44.00	SER	Extra Footage	0.95	41.80
75.00	SER	Pump Truck Mileage	7.00	525.00
1.00	SER	Manifold Head Rental	200.00	200.00
75.00	SER	Light Vehicle Mileage	4.00	300.00
1.00	EQP	8.5/8 Surface Plug	92.00	92.00
1.00	CEMENTER	Andrew Forslund		
1.00	EQUIP OPER	Dane Retzloff		
1.00	OPER ASSIST	Ethan Glassman		

TO: Cement
WELL # 160015
DATE _____
APPROVED: EA
8/27/12

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$2468.52

ONLY IF PAID ON OR BEFORE
Sep 9, 2012

Subtotal	8,957.95
Sales Tax	320.26
Total Invoice Amount	9,278.21
Payment/Credit Applied	
TOTAL	9,278.21

ALLIED OIL & GAS SERVICES, LLC 056729

REMITTO P.O. BOX 31
RUSSELL, KANSAS 61665

SERVICE POINT

oakley

DATE <u>8-15-12</u>	SEC <u>20</u>	TWP <u>22</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION	JOB START <u>11/20/12</u>	JOB END <u>11/20/12</u>	
LEAS <u>Garden city</u>	WELL # <u>18-20</u>	LOCATION <u>Garden city 9 N 4 W</u>			COUNTY <u>Finney</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>			WATER <u>1.01</u>					7.45

CONTRACTOR <u>Planner 2</u>	OWNER <u>same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	TD <u>35'</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>344'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
FEES MAX	MINIMUM
MBAS LINE	SHO JOINT
CEMENT LEFT IN CSO. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>20.95 cbl</u>	

CEMENT	
AMOUNT ORDERED <u>225 sks com place</u>	
<u>Place</u>	
COMMON <u>225 sks</u>	• <u>16.25</u> <u>3656.25</u>
POZ MIX	• _____
GEL <u>4 sks</u>	• <u>21.25</u> <u>85.00</u>
CHLORIDE <u>8 sks</u>	• <u>58.00</u> <u>465.60</u>
ASC	• _____

EQUIPMENT	
PUMP TRUCK # <u>431</u>	CEMENTER <u>Andres</u>
	HELPER <u>Don</u>
BULK TRUCK # <u>347</u>	DRIVER <u>Ethan</u>
BULK TRUCK #	DRIVER

HANDLING <u>243,205/ft</u>	• <u>2.00</u> <u>486.00</u>
MILEAGE <u>2.25 200/mile</u>	• <u>11.25</u> <u>25.31</u>
	TOTAL <u>6624.15</u>

841.37
1251.61
375.54

2468.52

REMARKS:

Cement did circulate

Thank you

832.49

SERVICE

DEPTH OF JOB <u>344'</u>	
PUMP TRUCK CHARGE	<u>1125.00</u>
EXTRA FOOTAGE <u>44</u>	• <u>2.25</u> <u>99.00</u>
MILEAGE <u>2.25 miles</u>	• <u>2.00</u> <u>4.50</u>
MANFOLD head	• <u>200.00</u>
Light vehicle	• <u>2.00</u> <u>200.00</u>
	<u>2191.50</u>
	TOTAL <u>2820.00</u>

PLUG & FLOAT EQUIPMENT

<u>Surface plug</u>	• <u>92.00</u>
	• _____
	• _____
	• _____
	• _____
	TOTAL <u>92.00</u>

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)	<u>320.26</u>
TOTAL CHARGES	<u>8957.95</u>
DISCOUNT	<u>2468.52</u> IF PAID IN 30 DAYS

PRINTED NAME DAVEN Dose

SIGNATURE [Signature]

Bid. 2010/2012

ALLIED

OIL & GAS SERVICES, LLC

PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 248-3381

INVOICE

Invoice Number: 132821
Invoice Date: Sep 5, 2012
Page: 1

RECEIVED SEP 17 2012

347294



Atlas Operating
15803 Kuykendahl Suite #200
Houston, TX 77090-3855

Atlas	Garden City #18-20	Net 30 Days	
KS1-02	Oakley	Sep 5, 2012	10/5/12

Quantity	Unit	Description	Unit Price	Total
4.00	MAT	Gel - No Charge		
200.00	MAT	ASC	18.00	3,600.00
200.00	MAT	Lightweight Type II	14.50	2,900.00
19.00	MAT	Salt - No Charge		
1,000.00	MAT	Gilsonite	0.89	890.00
60.00	MAT	Flo Seal	2.70	135.00
500.00	MAT	Super Flush	1.27	636.00
6.00	SER	Waiting Hours	440.00	2,640.00
495.65	SER	Cubic Feet	2.10	1,040.67
1,571.25	SER	Ton Mileage	2.35	3,692.44
1.00	SER	Production -- Bottom Stage	2,405.00	2,405.00
75.00	SER	Pump Truck Mileage	7.00	525.00
1.00	SER	Manifold Head Rental	200.00	200.00
75.00	SER	Light Vehicle Mileage	4.00	300.00
1.00	EQP	4.5 DV Tool	3,187.00	3,187.00
1.00	EQP	4.5 AFU Float Shoe	327.00	327.00
1.00	EQP	4.5 Latch Down Plug Assembly	233.00	233.00
2.00	EQP	4.5 Basket	270.00	540.00
11.00	EQP	4.5 Centralizer	48.00	528.00
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flippe		

Cement
#18
17000 @ 5

Production
1 str stage

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

ONLY IF PAID ON OR BEFORE

Subtotal	Continued
Sales Tax	Continued
Total Invoice Amount	Continued
Payment/Credit Applied	
TOTAL	

E.A
7/20/12



PO Box 93899
 Southlake, TX 76092

Voice: (817) 646-7282
 Fax: (817) 246-3361

INVOICE

Invoice Number: 132821
 Invoice Date: Sep 5, 2012
 Page: 2

RECEIVED SEP 17 2012



Alas Operating
 15603 Kuykendahl Suite #200
 Houston, TX 77090-3665

Area	Garden City #18-20	Net 30 Days
K81-02	Oakley	Sep 5, 2012
		10/5/12

1.00	OPER ASSIST	Brandon Wilkison		
1.00	OPER ASSIST	Chris Helpingstine		

**ALL PRICES ARE NET, PAYABLE
 30 DAYS FOLLOWING DATE OF
 INVOICE. 1 1/2% CHARGED
 THEREAFTER. IF ACCOUNT IS
 CURRENT, TAKE DISCOUNT OF**

ONLY IF PAID ON OR BEFORE

Subtotal	23,976.31
Sales Tax	961.64
Total Invoice Amount	24,969.85
Payment/Credit Applied	

ALLIED OIL & GAS SERVICES, LLC 056681

HEMITTO RD. BOX 31
ELLSWORTH, KANSAS 67663

SERVICE POINT
Cody

DATE	WELL	TRAIL	RANGE	CALLBO OUT	ON LOCATION	JOB START	JOB FINISH
9-5-12	20	22	33		4:00 PM	7:50 AM	8:30 AM
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
<u>Wells 18-20</u>	<u>Wells 18-20</u>	<u>Wells 18-20</u>	<u>Wells 18-20</u>	<u>Wells 18-20</u>	<u>Wells 18-20</u>	<u>Wells 18-20</u>	<u>Wells 18-20</u>
OLD OR NEW (circle one)				COUNTY STATE			
				<u>Finney KS</u>			

CONTRACTOR Pioneer
 TYPE OF JOB Production
 WELLS 20 TD 4900
 CASING SIZE 4 1/2 DEPTH 1420
 TUBING SIZE 3 1/2 DEPTH
 DRILL PIPE DEPTH
 TCGI 10 DEPTH 2772.72
 FREE MAX MINIMUM
 MEAL LINE SHOW POINT 21.87
 CEMENT LIFT IN CBL 21.87
 PERFE
 DISPLACEMENT 71.57
 EQUIPMENT

OWNER Same
 CEMENT AMOUNT ORDERED 20 sacks Life Top 2 1/2" Blended
20 sacks 4 1/2" 1 1/2" Blended 3" Blended
Angel Superflus
 COMMON
 FOMIX
 OIL 456 21.87 AC
 CHLORIDE
 APC
 2 1/2" 22.57 11.30 239.25
 3 1/2" 17.88 27.34 AC
 4 1/2" 17.20 1.87 17.20
 5 1/2" 50.00 10.33 516.50
 Superflus 20.00 21.87 437.40

PUMP TRUCK CEMENTER Dariusz Warko 1
 8525-001 DRIVER Tyler Elipse 2
 BULK TRUCK
 1 376-310 DRIVER Brandon Will Kison 3
 BULK TRUCK
 1 878-309 DRIVER Chris Felopimatin 3
 040-077 Omar Garcia (703)

INSTALLING TIME 6 hrs
 HANDLING 245.65 22.57 5510.00
 MILEAGE 22.95 X 2.53 58.06 1183.00
 15 71.25 TOTAL 15213.00

REMARKS:
Run Well Through with 2 1/2" Packer 2400' Run
with 20 sacks Life Cement & 20 sacks 4 1/2" Cement
with 20 sacks 4 1/2" Cement with 20 sacks 4 1/2"
with 20 sacks 4 1/2" Cement with 20 sacks 4 1/2"
with 20 sacks 4 1/2" Cement with 20 sacks 4 1/2"
with 20 sacks 4 1/2" Cement with 20 sacks 4 1/2"
with 20 sacks 4 1/2" Cement with 20 sacks 4 1/2"
with 20 sacks 4 1/2" Cement with 20 sacks 4 1/2"

SERVICE
 DEPTH OF JOB
 PUMP TRUCK CHARGE 239.25
 EXTRA FOOTAGE
 MILEAGE 75 17.00 1275.00
 MANIFOLD 1800.00
 Leverage 142.00 1300.00
 TOTAL 3490.00

CHARGE TO: Atlas operating LLC
 STREET _____
 CITY _____ STATE _____ ZIP _____

FLUID & FLOAT EQUIPMENT
 1/2" weather seal 4 21.87 87.48
 Drill Pipe 1 307.00 307.00
 1 1/2" Float Valve 1 21.87 21.87
 Label Down Plug Assy 1 21.87 21.87
 2" Washers 1 21.87 21.87
 1" Centralizer 1 21.87 21.87
 80#
 TOTAL 481.00

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.
 PRINTED NAME Leeward Heard
 SIGNATURE Leeward Heard

SALES TAX (If Any) 981.55
 TOTAL CHARGES 23978.51
 DISCOUNT 16896.52 IF PAID IN 30 DAYS
 20/00/20/45/0

8163.31
 45%
 8673.68
 15115.20
 20%
 3163.04

ALLIED

OIL & GAS SERVICES, LLC

PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7252
Fax: (817) 246-3361

347291

INVOICE

Invoice Number: 132624
Invoice Date: Sep 5, 2012
Page: 1

Atlas Operating
15803 Kuykendahl Suite #200
Houston, TX 77090-3855

RECEIVED SEP 17 2012



Atlas	Garden City #18-20	Net 30 Days	
KS1-02	Oakley	Sep 5, 2012	10/5/12

Quantity	Unit	Description	Unit Price	Total Price
150.00	MAT	Class C Premium Plus	22.15	3,322.50
600.00	MAT	Lightweight Type II	14.50	8,700.00
3,000.00	MAT	Gisonite	0.89	2,670.00
150.00	MAT	Flo Seal	2.70	405.00
888.80	SER	Cubic Feet	2.10	1,866.48
2,736.74	SER	Ton Mileage	2.95	8,431.36
1.00	SER	Production - Top Stage		
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Filpas		
1.00	OPER ASSIST	Chris Helpingthe		

Cement
170005
E.A.
9/20/12

Prodn
2nd stage

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

ONLY IF PAID ON OR BEFORE

Subtotal	23,395.34
Sales Tax	1,124.76
Total Invoice Amount	24,520.10
Payment/Credit Applied	
TOTAL	

ALLIED OIL & GAS SERVICES, LLC 056602

KNOWITTO P.O. BOX 31
RUSSELL, KANSAS 67663

SERVICE POINT
Colony

DATE	WELL	DEPTH	LOCATION	OWNER	JOB START	JOB FINISH
9-5-12	18-40	4920	Buckles Rd 4w-NAS-Winds	Same	4:30 PM	6:00 PM
OLD ORDER (Check one)						

CONTRACTOR *Pioneer #2* OWNER *Same*

TYPE OF JOB *Production* TOP *Shoe*

HOLE SIZE *7 7/8* TD *4920*

CASING SIZE *4 1/2* DEPTH *4920*

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH *3717.72*

FEET MAX _____ MINIMUM _____

MBS LINE _____ SHOULDER *MP*

CEMENT/LINING *MP*

PERF _____

DISPLACEMENT *43.21*

EQUIPMENT _____

CEMENT AMOUNT ORDERED *400 SKS Lithopac 11000*

CEMENT *400 SKS Lithopac 11000*

COMMON _____

FOZMIX _____

GEL _____

CHLORIDE _____

ASC _____

CLASE *150 SKS 400 SKS 100 SKS*

Lithopac *400 SKS 100 SKS*

Gulfport *400 SKS 100 SKS*

Flasol *100 SKS 100 SKS*

PUMP TRUCK CEMENTER *Chris Smith*

1423-281 HELPER Tyler Ellers

BULK TRUCK _____

1542-272 DRIVER Omar Garcia (AS)

BULK TRUCK _____

1372-268 DRIVER Chris Halphogator

HANDLING *888.80 SK*

MILEAGE *2149 x 72K*

TOTAL *2335.34*

REMARKS:

This job 200 SKS cement pump with spacer mix 400 SKS cement mix 100 SKS cement 400 SKS release plus displacement water load the 21500 that will cement did 400 SKS

Thank you.

CHARGETO: *Atlas operating LLC*

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____

MILEAGE _____

MANIFOLD _____

TOTAL _____

FLUG & FLOAT EQUIPMENT

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.

PRINTED NAME *Leonard Herald*

SIGNATURE *Leonard Herald*

TOTAL _____

SALES TAX (11.4%) *1124.76*

TOTAL CHARGES *23,295.34*

DISCOUNT *7666.28* IF PAID IN 30 DAYS

20/00/00/45/0

8292.84

452

3734.02

19661.32

20

2932.26

Saman Sharifaie

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY Atlas Operating, LLC
 LEASE Garden #18-20
 FIELD Damme
 LOCATION 2310' ENL & 940' BEL
 SEC 20 TWPSP 22S RGE 33W
 COUNTY Finney STATE Kansas
 CONTRACTOR Pioneer Drilling #2
 SPUD 08/15/12 COMP 09/04/12
 RTD 4880' LTD 4900'
 MUD UP 3500' TYPE MUD Chemical
 SAMPLES SAVED FROM 3900' TO RTD
 DRILLING TIME KEPT FROM 3650' TO RTD
 SAMPLES EXAMINED FROM 3900' TO RTD
 GEOLOGICAL SUPERVISION FROM 3800'
 REFERENCE WELL Garden City #15-20

ELEVATIONS

KB 2894'
 DF _____
 GL 2886'
 Measurements Are All From Kelly Bushing

CASING

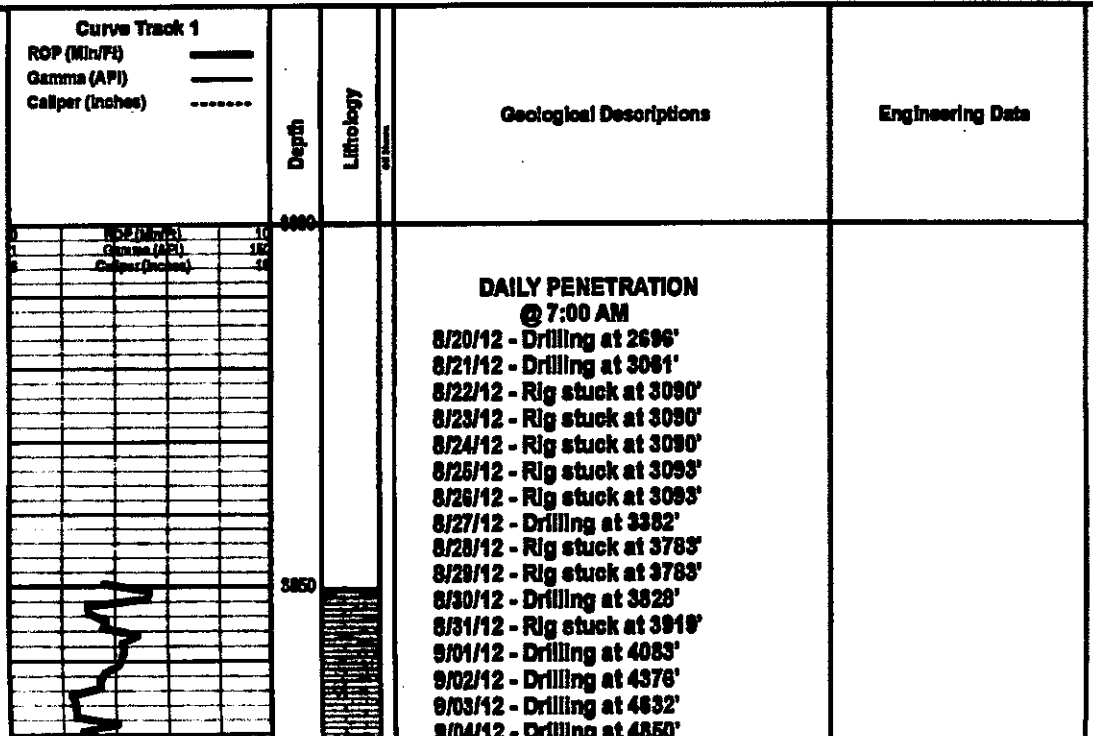
CONDUCTOR _____
 SURFACE 8-5/8" at 332'
 PRODUCTION 4-1/2" at 4900'

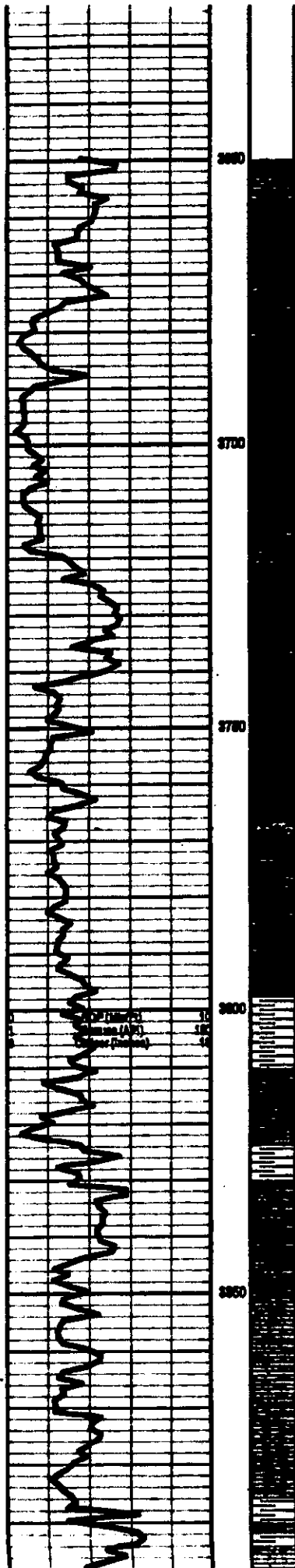
ELECTRICAL SURVEYS CND; DIL; MEL Superior

Formation	Sample Tops	E-log Tops	Strat. Pos.
Hechmer Shale	3796 (-902)	3800 (-906)	-2
Lansing	3843 (-949)	3842 (-948)	-4
BKC	4306 (-1412)	4308 (-1414)	-3
Pawnee	4409 (-1515)	4409 (-1515)	-3
R. Scott	4435 (-1541)	4437 (-1543)	-3
Cherokee	4453 (-1559)	4454 (-1560)	-3
Morrow Sh	4639 (-1745)	4641 (-1747)	Flat
St Genevieve	4678 (-1784)	4676 (-1782)	+3
St. Louis	4727 (-1833)	4727 (-1833)	Flat

REMARKS Due to oil shows in multiple pay zones it is recommended and agreed upon that production casing be set to further evaluate this well.

Respectfully Submitted,
 Saman Sharifaie
 Petroleum Geologist





01/22/12 - Rig stuck at 3090'
 8/23/12 - Rig stuck at 3090'
 8/24/12 - Rig stuck at 3090'
 8/25/12 - Rig stuck at 3093'
 8/26/12 - Rig stuck at 3093'
 8/27/12 - Drilling at 3382'
 8/28/12 - Rig stuck at 3783'
 8/29/12 - Rig stuck at 3783'
 8/30/12 - Drilling at 3828'
 8/31/12 - Rig stuck at 3918'
 9/01/12 - Drilling at 4083'
 9/02/12 - Drilling at 4378'
 9/03/12 - Drilling at 4632'
 9/04/12 - Drilling at 4850'

Hebner 3798 (-002)

Toronto 3812 (-018)

Lansing 3843 (-049)

Mudoo @ 3791'
 Wt: 9.8
 Vis: 33
 Wt: N/C
 Chi: 21,000
 LCM: 28



3800 La, orn, shg, f to microsh, Tr qb, n/s

Sh, variabk, sly

La, orn, f gr, inigran por, sbang, embd qb, Tr pyr, Tr Chl, s glauc, n/s

La, a.s

3850 La, orn/lan, v gr, inigran por, Tr chl, Tr lrd OCV, Tr ll brn O lrd, scst gls sil, sll ocl, scst fluor, fr SFO

La, orn, shg, f to m gr, frac & inigran por, Tr Chl, Tr pyr, Tr scst suw O scst, gn fluor, v int ocl, pr SFO

Sh, varia, sly

La, whform, v f to f gr, shg, pyr, ohty, scst foss, Tr scst O l vuga, lrd, int ocl, scst gn fluor, pr SFO

4000 La, a.s

La, whform/lan, sll moll, f gr, foss & frac por, scst Co, Tr Chl, fluor, sll ocl, Tr int foss blk O, pr SFO

4050 La, a.s, hd to tr, ohty IP

4100 La, orn/lan, moll, f gr, lrdn & frac por, lrd OCV, blk, hd, sbang, embd foss, Tr Chl, ll brn O in frac & pores, brt gn fluor, gd ocl, fr SFO

La, a.s, abund Ocl, gd out fluor

La, orn/lan, v f gr, abund foss & vug por, vuggy, Ooc, fr ocl, Tr lrd, scst brt gn fluor, pr int foss SFO

4150 La, a.s, incr foss, fr G Bubl

Mudco @ 3901'
 Wt: 8.7
 Vis: 50
 WI: 8.8
 CHI: 3,000
 LCM: 2#

Worked on mud pump at 7:34 AM for 58 mins at 4098'

Mudco @ 4112'
 Wt: 9.1
 Vis: 47
 WI: 8.8
 CHI: 2,800
 LCM: 4#



4180 c La, a.s. incr foss, rr G Bubi

La, tan, sing, vf gr, blk, frac por, hd, sil Ool, Tr Chl, Tr fluor, no odr, n/s

Sh, blk/lt gry, mica, fr

Sh, blk carb **KC "A" 4176 (-1282)**

4200 d La, a.s. foss, Tr dd O

d La, crm/tan, vf gr, sub-chky to chky, abund foss por, Ool, vuggy IR, frac, Tr Chl, rr dd O str, Tr fluor, NSFO

Sh, blk carb **KC "B" 4216 (-1324)**

4280 c La, crm/tan, sing, f gr, inrgan por, arg, silty, arg, acct Col, Tr Chl, no odr, no fluor, n/s

c La, crm/tan, sing, f gr, inrgan por, arg, silty fr, Tr chl, all acct, acct brt fluor, rr htd, pr SLFO

4300 c La, a.s. incr odr

Sh, vario, silty

e La, crm, f gr, inrgan & foss por, Ool, fr, Tr htd, Tr O acct, gd odr, acct brt fluor, fr SLFO

KC "C" 4276 (-1355)

Sh, gry/blk carb, mica

La, a.s. incr brt gn fluor

4350 Sh, blk carb **BKC 4306 (-1412)**

4400 La, crm/tan, sing, vf gr, frac por, foss, glauc, Tr Chl, all O odr, n/s

La, a.s. all mott, incr foss, Tr Mdst

Sh, gry/blk carb

La, tan, mott, f gr, foss, fr, arg, n/s

c La, crm/tan/lt gry, all mott, f to m gr, inrgan & foss por, all sun, Ool, frac, Tr O in rr vugs, mod sat, Tr htd OGW, all odr, acct brt gn fluor, gd cut, pr SFO

Sh, vario, silty, fr

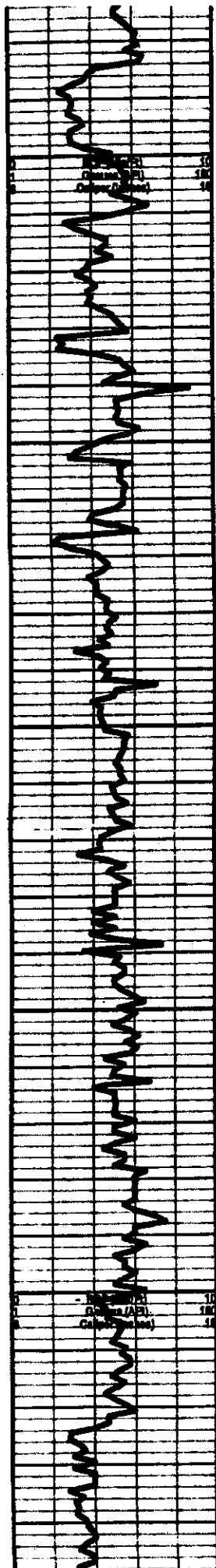
e La, whit/brn, sing, f to microxin, foss por, embd Chl, Oo, brn, odr, fluor, rr acct O in vugs, gd sat, fr SFO

4400 La, crm/tan, f gr, foss & inrgan por, Ool, chky IR, no odr, Tr

Worked on mud pump at 10:48 AM for 47 mins at 4157'

Worked on rig repairs at 12:48 AM for 56 mins at 4319'

Worked on rig repairs at 4:01 AM for 61 mins at 4349'



Sh., vario, shly, fri
La., whit/brn, sing, f to microxh, fose por, embd Chl, Co, brn, odr, fluor, rr seal O in vugs, gd sat, fr SFO
La., om/lan, f gr, fose & intgran por, Col, chty IP, no odr, Tr seat fluor, NSLFO
Sh., blk carb
Pawnee 4409 (-1515)
La., oliv/lan, vf to m gr, intgran por, all fri to fri, sue IP, chty IP, Tr Sst, all frid OCW, R O sat, rr seat fluor, no odr, pr SFO
La., s.s.
Ft Scott 4436 (-1541)
Sh., blk carb
La., om/lan, f gr, sing, intgran & frac por, seat fose, chty IP, Tr qtz, ang, Tr fluor, no odr, n/s
Cherokee 4453 (-1559)
Sh., blk carb/gray
Sh., vario, fri to argil
La., om/brn, sing to all mott, vf to f gr, frac, fose, por, chty, sue Inol, Tr dd O, no fluor, NSLO
Sh., gry, mica, fri
La., om/lan, all mott, f gr, intgran & fose por, frac IP, sub-chty, n/s
Sh., blk carb
La., om/lan/ll gry, mott, frac por, strat, embd qtz, dd O strat, fose, ang to sbang, abund gry Sh, no fluor, NSLO
Sh., gry, silty, fri
La., oliv/brn, sing, f gr, intgran por, fose IP, hd, embd qtz, frid, fri odr, seat brt fluor, Tr G Subl, gd O sat, gd out, all SFO
La., s.s. Iner odr, frid OCW, Tr Chl
Sh., vario/blk carb, silty
La., om/lan, sing, microxh, frac, vuggy, fose, chty, cong IP, Tr py, Tr brt gn fluor, no odr, NSLO
La., s.s. Tr dd O in frac
Sh., vario
La., om/lan, vf gr, frac por, fose IP, chty, Tr qtz, Tr fluor, no odr, n/s
Sh., vario/blk carb, fri
Sh., blk carb
Morrow Sh 4639 (-1745)
Sh., blk carb
La., om/lan/ll gry, vf to f gr, intgran & frac por, andy IP, chty IP,

Mudco @ 4402'
 Wt: 9.2
 Vis: 54
 Wt: 8.8
 Chl: 2,800
 LCM: 59

Worked on mud pump at 3:28 PM for 80 mins at 4487'

Mudco @ 4654'
 Wt: 9.3
 Vis: 45
 Wt: 8.8
 Chl: 2,400



Sh., blk carb

Morrow Sh 4639 (-1745)

Sh., blk carb

4860 La., orn/lan/lt gry, vf to f gr, intran & frac por, endy IR chky IP, Tr gls str, Tr acct fluor, int odr, pr out, gr SO

La., orn/lan/lt gry, sing, vf to f gr, intran & frac por, fr, Tr SP, frt odr, acct brt gn fluor, lt O sat, gd out, fr SO

4850 SS., cln/wh, f gr, srid, rmd, intran por, fr, abund gry Sh, pyr, Tr dd O str, Tr lt O sat, Tr fluor, int odr, pr SFLO

St Genevieve 4678 (-1784)

Sh., blk carb/gry, mica

SS., cln/wh, f gr, srid, intran por, fr, abund gry Sh, Tr orn

La., pyr, dd O spks, Tr fluor, no odr, NSLFO

4700 La., orn, f to lg gr, mott IP, intran por, SS aa, abund gry Sh, pyr, Tr qtz, n/s

La., aa, Tr Cht

La., orn/lt gry, sing to mott, vf gr, intran por, pyr, SS w mott dd O sat, Tr fluor, no odr, NSLFO

St Louis 4727 (-1833)

Cht., cln/wh, fra, foss IP, drea, pyr, frac, Tr brn spks, abund orn La aa, Tr chr SS w lt dd O sat, Tr acct fluor, no odr, NSLFO

4780 Cht., aa

La., orn, sing, vf xln, frac & xln por, hd to sil fr, Tr Oo, ang, sub chky IP, Tr Cht, no fluor, no odr, n/s

La., wh/orm, f to lg gr, intran por, suo IP, pyr, frac, ang, n/s

Sh., gry, mica, Tr SS aa

La., aa, Tr Cht aa

4800 La., orn/lan, sing, m gr, intran & frac por, foss IP, ang, mica, n/s

La., orn/lan, mott, microxin, frac por, sub-chky, brco w qtz, n/s

4850 La., aa

La., wh/orm, sing, vf to med gr, intran por, pyr, sub-chky, no odr, n/s

La., orn/gry, mott/ang, vf to microxin, all foss, intran & xln por, no odr, no fluor, n/s

Mudco @ 4654'
 Wt: 9.3
 Vis: 45
 WI: 8.8
 CHI: 2,400
 LCM: 4#

Work on freeing pipe
 at 8:35 AM for 161
 mins at 4655'

Work on rig at
 1:09 PM for 63
 mins at 4685'

Rig check and jet
 mud pit at 7:26 PM
 for 70 mins at 4761'