



KANSAS CORPORATION COMMISSION 1100213
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 # 5822
Name: Val Energy, Inc.
Wellsite Geologist: Sean Deenihan
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 #: _____
03/19/2012 03/26/2012 04/24/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-055-22106-00-00
Spot Description: _____
SW NE NE Sec. 19 Twp. 22 S. R. 33 East West
990 Feet from North / South Line of Section
990 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 #: 22-19
Field Name: _____
Producing Formation: St Louis
Elevation: Ground: 2902 Kelly Bushing: 2912
Total Depth: 4935 Plug Back Total Depth: 4853
Amount of Surface Pipe Set and Cemented at: 340 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2709 Feet
If Alternate II completion, cement circulated from: 4899
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 Gattisor Date: 11/08/2012



1100213

Operator Name: Atlas Operating LLC Lease Name: Garden City Well #: 22-19
 Sec. 19 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 Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Attached	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Heebner</td> <td>3805</td> <td>-893</td> </tr> <tr> <td>Lansing</td> <td>3853</td> <td>-941</td> </tr> <tr> <td>Cherokee</td> <td>4382</td> <td>-1470</td> </tr> <tr> <td>Morrow shale</td> <td>4675</td> <td>-1763</td> </tr> <tr> <td>St Gen</td> <td>4718</td> <td>-1806</td> </tr> <tr> <td>St Louis</td> <td>47184</td> <td>-1872</td> </tr> </table>	Name	Top	Datum	Heebner	3805	-893	Lansing	3853	-941	Cherokee	4382	-1470	Morrow shale	4675	-1763	St Gen	4718	-1806	St Louis	47184	-1872
Name	Top	Datum																				
Heebner	3805	-893																				
Lansing	3853	-941																				
Cherokee	4382	-1470																				
Morrow shale	4675	-1763																				
St Gen	4718	-1806																				
St Louis	47184	-1872																				

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	23	340	A	275	cc 3 % , gel 2 %
Production	7.875	4.50	10.50	4899	Pozmix, C	1000	Gel 8 % , Koseal 5 #

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	-			
	-			

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	4783-4786 ; 4806-4808	1200 gals 7.5 % Nefe acid	4783-4808
4	4783-4786 ; 4806-4808	20328 gals gel & 12,000 # sd	4783-4808

TUBING RECORD: Size: <u>2.375</u> Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>05/04/2012</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. <u>8</u>	Gas Mcf <u>1</u>	Water Bbls. <u>90</u> Gas-Oil Ratio <u>125</u> 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>4783-4808</u> <u>St Louis</u>
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Form	ACO1 - Well Completion
Operator	Atlas Operating LLC
Well Name	Garden City 22-19
Doc ID	1100213

All Electric Logs Run

Dual Induction Log
Compensated Neutron- Density Log
Microlog
Cbl



CONSOLIDATED
Oil Well Services, LLC

600545 - 06242

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

DIS

INVOICE

Invoice # **248515**

Invoice Date: **03/21/2012** Terms: **10/10/30, n/30**

Page **1**

ATLAS OPERATING, LLC
15603 KUYKENDAHL, SUITE 200
HOUSTON TX 77009-3655
(281) 893-9400

GARDEN CITY 22-19
33902
19-228-33W
3-20-2012
KS

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	275.00	17.6500	4853.75
1102	CALCIUM CHLORIDE (50#)	776.00	.8900	690.64
1118B	PREMIUM GEL / BENTONITE	517.00	.2500	129.25
4432	8 5/8" WOODEN PLUG	1.00	96.0000	96.00

Sublet Performed	Description	Total
9999-130	CASH DISCOUNT	-576.96
9999-130	CASH DISCOUNT	-267.76

Description	Hours	Unit Price	Total
439 TON MILEAGE DELIVERY	774.00	1.67	1292.58
520 CEMENT PUMP (SURFACE)	1.00	1085.00	1085.00
520 EQUIPMENT MILEAGE (ONE WAY)	60.00	5.00	300.00

DESCRIPTION Cement
ACCOUNT # 160015
WELL NAME _____
AFE # _____
DATE _____ APPROVED _____

8 5/8" Surface

Amount Due 8877.05 if paid after 04/20/2012

Parts:	5769.64	Freight:	.00	Tax:	386.85	AR	7989.35
Labor:	.00	Misc:	.00	Total:	7989.35		
Sublt:	-844.72	Supplies:	.00	Change:	.00		

Signed _____

Date _____

BARTLESVILLE, OK
918/338-0808

EL DORADO, KS
316/322-7022

EUREKA, KS
620/583-7664

PONCA CITY, OK
580/762-2303

OAKLEY, KS
785/672-2227

OTTAWA, KS
785/242-4044

THAYER, KS
620/839-5269

GILLETTE, WY
307/686-4914



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-8210 or 800-467-8678

FIELD TICKET TREATMENT REPORT
CEMENT

TICKET NUMBER 33902
LOCATION Oaklawn, KS
FOREMAN Walt Dinkel

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
3-20-12	1226	Garden City 22-19	19	22 ^s	33 ^w	Finney	
CUSTOMER Atlas Operating, LLC		Dig Log + Barlow		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS		1/2 W		520	Cory Davis		
CITY		43 S		439	Wes Flinn		
STATE		46 E					
ZIP CODE							

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 340' CASING SIZE & WEIGHT 8 5/8 - 28.8
 CASING DEPTH 340' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.2 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING 15'
 DISPLACEMENT 20 1/2 DISPLACEMENT PSI 200* MIX PSI _____ RATE 5-6 BPM

REMARKS: Safety meeting, Rig up on val # 7, circ on bottom
Mix 275 sks com, 3 1/2 cc - 2 1/2 gal, release Plug + Displace 20 1/2 - DPL Ho O
shutin

Count Dtd Circ

Approx 5 BPM to Bit

2:45^h

Thank You
Walt + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54019	1	PUMP CHARGE	1,025.00	1,025.00
5406	60	MILEAGE	5.00	300.00
11043	275 sks	Class A cement	17.65	4,853.75
1102	776 #	Calcium Chloride	.89	690.54
1118B	517 #	Gal	.25	129.25
5407A	12.9	Ten Mileage Delivery	1.67	1,292.50
4432	1	8 5/8 Woodan Plug	96.00	96.00
				8,447.22
		Less 10% Disc	-	844.72
				7,602.50
		248515		386.85
			SALES TAX	7989.35
			ESTIMATED	
			TOTAL	

AUTHORIZATION Jesse Caville TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



CONSOLIDATED
Oil Well Services, LLC

001359

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-8210 • 1-800/467-8676
Fax 620/431-0012

INVOICE

Invoice # **248643**

Invoice Date: **03/28/2012** Terms: **10/10/30,n/30**

Page **1**

ATLAS OPERATING, LLC
15603 KUYKENDAHL, SUITE 200
HOUSTON TX 77090-3655
(281)893-9400

GARDEN CITY B-22-19
33940
19-228-33W
3-27-2012
KS

Part Number	Description	Qty	Unit Price	Total
1131	60/40 POZ MIX	725.00	15.1000	10947.50
1126	OIL WELL CEMENT	200.00	22.5500	4510.00
1104CS	CLASS "C" CEMENT (SALS)S	150.00	18.7000	2805.00
1118B	PREMIUM GEL / BENTONITE	4988.00	.2500	1247.00
1110A	KOL SEAL (50# BAG)	4625.00	.5600	2590.00
1107	FLO-SEAL (25#)	181.00	2.8200	510.42
4161	FLOAT SHOE 4 1/2" AFU	1.00	342.0000	342.00
4283	DV TOOL W/ LATCH DOWN	1.00	3850.0000	3850.00
4129	CENTRALIZER 4 1/2"	10.00	46.0000	460.00
4103	CEMENT BASKET 4 1/2"	4.00	261.0000	1044.00

Sublet Performed	Description	Total
9999-130	CASH DISCOUNT	-2830.59
9999-130	CASH DISCOUNT	-808.95

Description	Hours	Unit Price	Total
456 SINGLE PUMP	1.00	3020.00	3020.00
460 TON MILEAGE DELIVERY	2856.00	1.67	4769.52
528 EQUIPMENT MILEAGE (ONE WAY)	60.00	5.00	300.00

DESCRIPTION Cement
ACCOUNT # 170005
WELL NAME _____
WFE # _____
DATE _____
APPROVED _____
4 1/2 PROD N

Amount Due 38504.25 if paid after 04/27/2012

Parts:	28305.92	Freight:	.00	Tax:	1897.93	AR	34653.83
Labor:	.00	Misc:	.00	Total:	34653.83		
Sublt:	-3639.54	Supplies:	.00	Change:	.00		

Signed _____

Date _____

BARTLESVILLE, OK
918/338-0608

EL DORADO, KS
316/322-7022

EUREKA, KS
620/583-7884

PONCA CITY, OK
580/762-2303

OAKLEY, KS
785/672-2227

OTTAWA, KS
785/242-4044

THAYER, KS
620/839-5289

GILLETTE, WY
307/686-4914



CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 33940
LOCATION Oshtee KS
FOREMAN Fuzzy

PO Box 884, Chanute, KS 66720
828-431-8210 or 800-457-8878

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-27-12	1226	Gardner City B-22-19	19	22S	33W	Finney KS
CUSTOMER <u>Atlas Operating LLC</u>			TRUCK #			
MAILING ADDRESS			DRIVER			
CITY			STATE			
ZIP CODE			ZIP CODE			

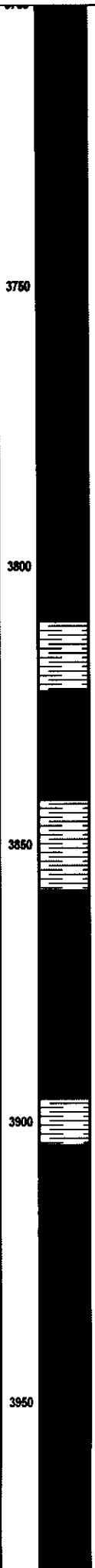
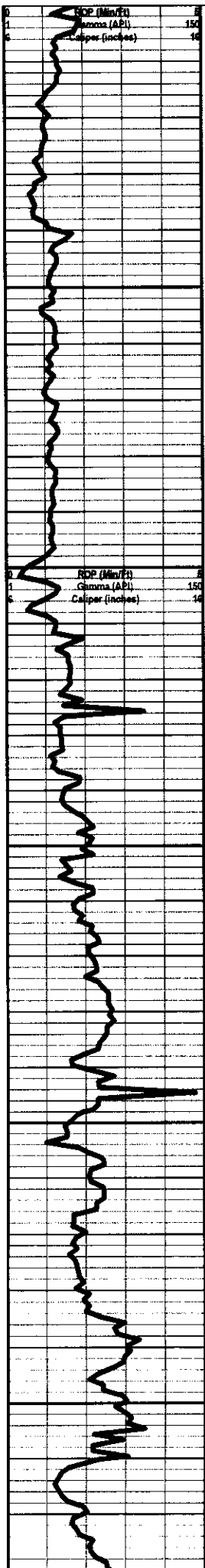
JOB TYPE 2.9 stage HOLE SIZE 7 7/8 HOLE DEPTH 4935' CASING SIZE & WEIGHT 4 1/2 10.5
CASING DEPTH 4896 DRILL PIPE _____ TUBING _____ OTHER DU @ 2700'
SLURRY WEIGHT 13.9-12.5 SLURRY VOL _____ WATER gal/Wk _____ CEMENT LEFT IN CASING 42 lb
DISPLACEMENT 77.1 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting on 3/27 Flostrump - Cont 1, 3, 4, 7, 9, 14, 18, 21, 40, 47
Bags - 17, 39, 49, 67, DU Tool @ 2. Core 1 hr Pump 500 gal water, mix
22 sacks helve 9" seal 1/4" Class 'C' w/ 50% Kol-sal Tail with 200 gals over 5% Kol-sal
wash pump 1 hr Drop plug and displace 34 90L water @ 43 1/2 89 hand, 1200'
1.5 ft 1500' land float hold. Drop DU Bomb with 15 min open hole @ 800'
Core 2 hrs, Pump 500 gal water mix 45 sacks helve 9" seal 1/4" Class 'C'
Kol-sal (Class 'C' wash pump 1 hr Drop plug and displace 43 90L water @
800' 1.5 ft 1550' close DU Tool. Cement did circulate approx 45 gal
to pit. Thanks Tuzzy & crew.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401 E	1	PUMP CHARGE	3020.00	3020.00
5406	60	MILEAGE	5.00	300.00
5407 A	47.6 Ton	Ton Mileage Delivery	10.7	4769.32
1131	725 sacks	60/40 80's	15.10	10947.50
1126	200 gals	DUK	22.50	4500.00
1104CS	150 gals	Class 'C'	19.70	2955.00
1118 B	4998#	Bentonite	12.5	12471.00
1110 A	4625#	Kol-sal	15.6	2590.00
1107	181#	Flo-sal	2.83	510.42
4161	1	4 1/2 - RFU Flostrump	342.00	342.00
4293	1	4 1/2 - DU Tool w/ 1st holdout	3850.00	3850.00
4129	10	4 1/2 - Cement bags	46.00	460.00
4103	4	4 1/2 - Bags	261.00	1044.00
		subtotal		36395.44
		less 10% discount		3639.54
		subtotal		32755.90
		SALES TAX		1897.98
		ESTIMATED TOTAL		34653.88

Form 5757 AUTHORIZATION [Signature] TITLE Foreman DATE 3-27-12

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



Ls., gy, chiky, vf gr, gran - sil sdy, fri, fr intgran Por, n/s

Ls. wh, gy, vf gr, chiky, soft, n/s

Ls., vf gr, sing, firm, p vis por, sil chiky, shaly, n/s

Ls., wh, gy, vf gr, p vis por, firm, n/s

Ls., sdy, crm, gy, vf gr, p intgran Por, chiky, firm, n/s

Heebner Sh 3804 (-894)

Sh., blk

Sh., gy, firm

Ls., wh, gy, chiky, p vis por, n/s

Lansing 3857 (-947)

Ls., crm, vf gr, sing, p intgran Por, firm-hd, n/s

Ls., crm, vf gr, sing, firm, p intgran Por, barren, no odr

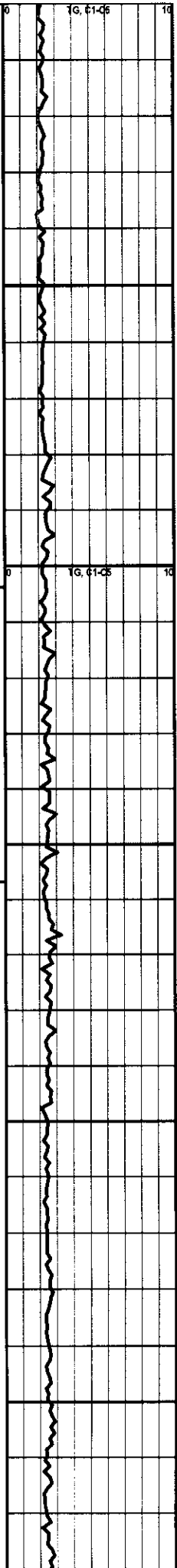
Sh., gy, gm, soft

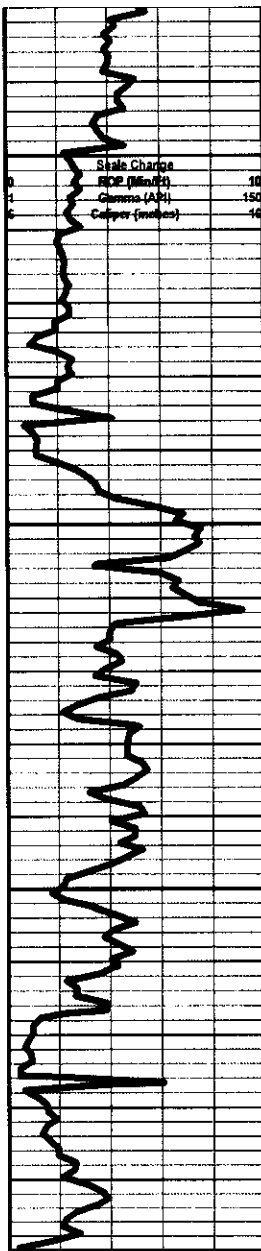
Ls., crm, vf gr, p intgran Por, n/s

Ls. a.a.

Ls., wh, crm, dnse, hd, n/s

Ls., wh, chiky, shaly, n/s





4000

Ls., crm, vf gr, p intgran Por, dnse, n/s

Ls., crm, vf gr, platy, p vis Por, n/s

Ls., crm, vf gr, p intgran por, rr vug Por, VSSFO, rr brn O str, fri, chily, wk fluor, no odr

Ls., crm, ool IP, fr -intool Por, SSFO, ft odr

4050

Ls, wh, crm, sing, firm-hd, dnse, p vis Por, n/s

Ls., crm, wh, chily, p intgran Por, n/s

Sh., blk

Ls., crm, brn, vf gr, rr vug Por, inc. wh-gy fresh Cht

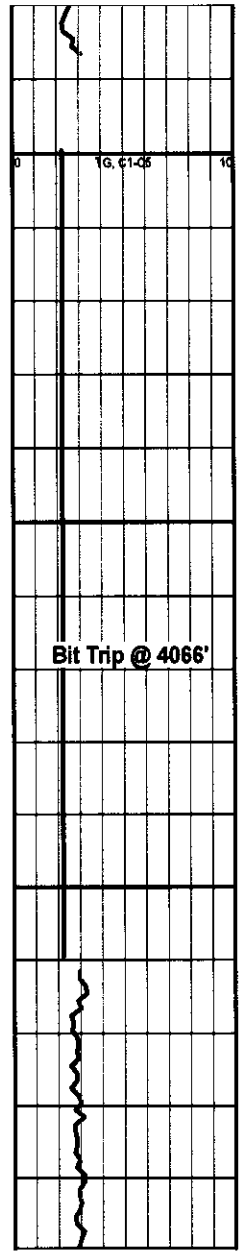
4100

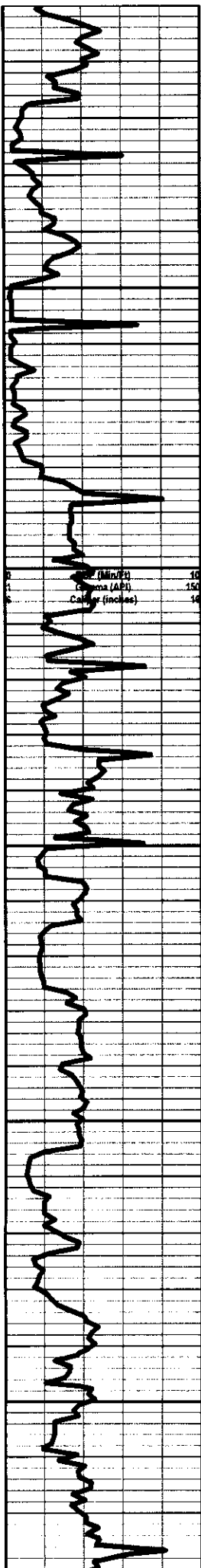
Ls., crm, vf gr, ool IP, p intool Por, FSFO-ft brn, mod odr, scattered fluor

Ls., wh, crm, f gr, chily-sbchily, fr intgran por, fri, no odor

Ls., crm, gy, vf gr, P intgran Por, rr vug, no odor

4150





scattered fluor

Ls., wh, crm, f gr, chiky-abchiky, fr intgran por, fri, no odor

Ls., crm, gy, vf gr, P Intgran Por, r vug, no odor

4160

Ls., wh crm, chiky IP, pred Ool., fr-gd Oom Por, n/s

Stark Sh. 4197 (-1287)

4200 Sh., blk

Ls., tn, gy, shaly firm

Ls., crm, brn, Ool., vf gr, dense, fr-gd oom Por, fri, n/s

Hushpuckney Sh. 4239 (-1329)

4250 Sh., blk

Sh., gy, brn,

Ls., crm, tn, brn, vf gr, Ool IP, mottled, p intgran Por, firm, inc. fresh, wh, Cht., no odr

Ls., wh, crm, vf gr, p intgran Por, n/s

Ls., crm, gy, mottled, vf gr, p intgran por, firm, n.s

4300

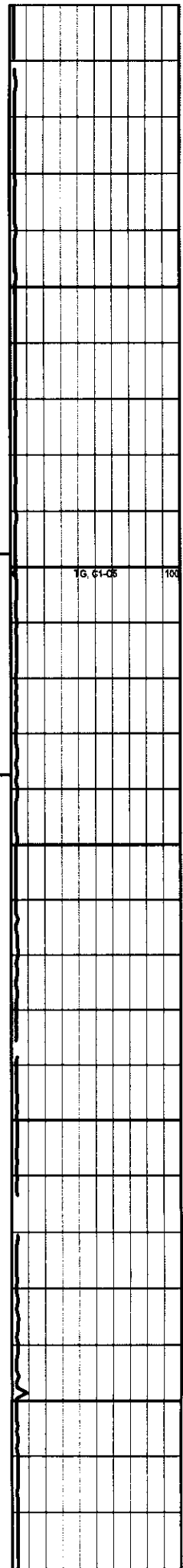
Sh., gy, fis

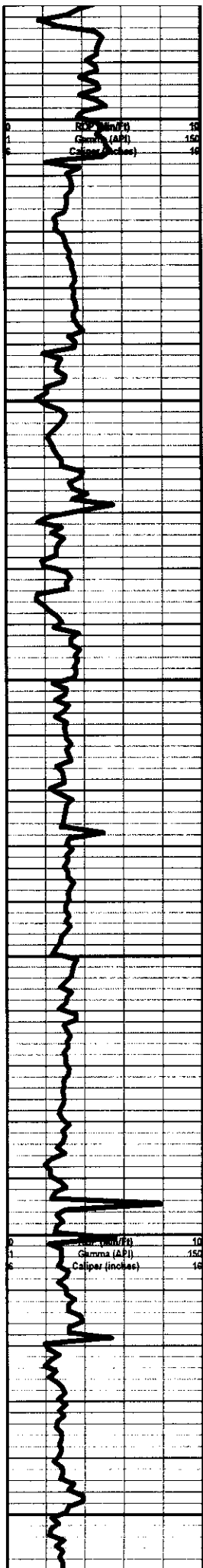
Sh., gy, soft

4350

Ls., gy, mottled, vf gr, p intgran Por, n/s

Ls., gy, xf gr, p intgran Por, hd





4400 Ls., gy, vf gr, P intgran Por, firm, n/s

Ls., a.a

4450 Ls., gy, vf gr, p intgran Por, shaly, hd, n/s

Cherokee Sh. 4484 (-1574)

Sh., blk

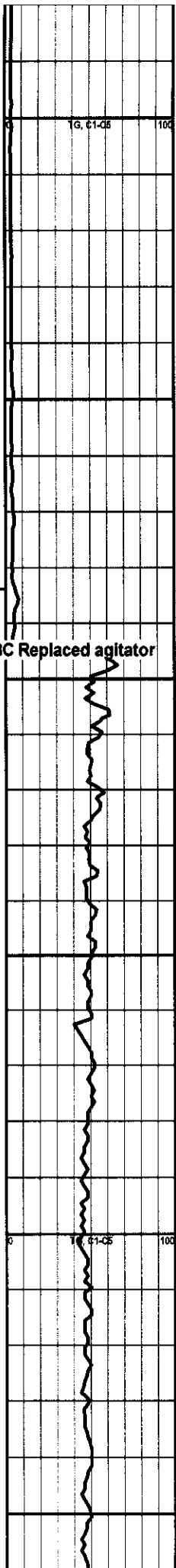
Ls., crn, xf gr p intgran Por, n/s

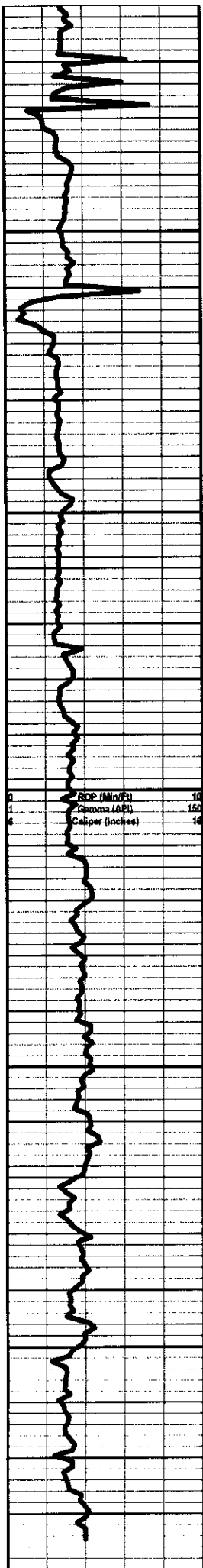
4600 Sh., gy, blk

Sh., varic.

4650 Sh., gy firm

4660 Sh., gy-dk gy dense





Morrow Sh. 4678 (-1768)

Sh., gy, silty, inc. fresh Cht., n/s

4700

Ls., crm, gy vf gr, p intgran Por, n/s

Sh., gy blk

Morrow Sd 4712 (-1802)

Se., vf gr, silty IP, fr intgran Por, fri, sbang, p-fr show live oil upon crush, ft odor, wk fluor

Sh, blk, gy

Miss 4732 (-1822)

Ls., crm, wh, sdy, vf gr, sbang, p intgran Por, fri, no odor, wk fluor

4750

Ls., crm, gy, dnse, p intgran Por, n/s

Ls., wh, crm, vf gr, p intgran Por, firm, n/s

Ls., wh, vf gr, p intgran Por, sli sdy, chily IP, firm, n/s

4800

Ls., wh, vf gr, chily, p intgran Por, r vug por, sme Cht, n/s

Ls., wh, vf gr, p intgran Por, firm, n/s

Ls., wh, sdy, vf gr, p por, no odor

4850

Ls., wh, gran, sli chily, p intgran por, firm, n/s

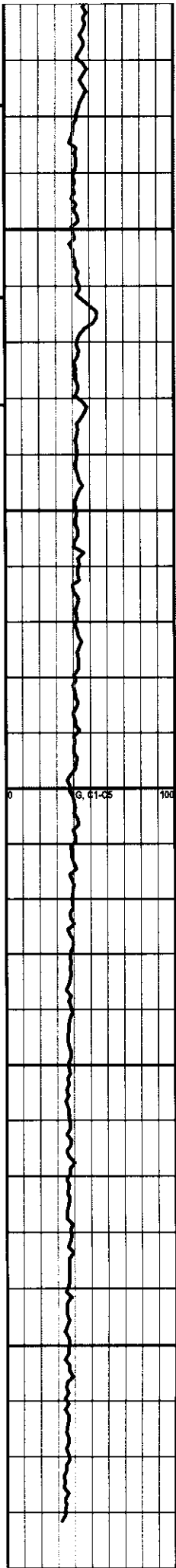
Ls., wh, gy, vf gr, p intgran por, dnse, no odor

Ls., a.a.

4900

Ls.a.a.

Ls., wh, crm, vf gr, sli chily, p intgran Por, firm, n/s



WELL COMPARISON SHEET

Company: Atlas Operating LLC

Well: #22-19 Garden City
Location: 990' FNL & 909' FEL
 Sec. 19 - 22S - 33W
 Finney Co., KS

Elevation: 2912' KB 2902' GL
Field: Damme

Surface Casing: 340

Contact:

Geological: Sean Deenihan

Wellsite Geologist: Sean Deenihan Cell: 316-640-7034

Drilling Contractor: Val Rig #7

COMPLETION WELL
 Garden City #22-19

990' FNL & 909' FEL
 2912 KB

Formation	Sample	Sub-Sea	Log	Sub-Sea
Krider	2542	370	2542	370
Heabner	3804	-892	3805	-893
Lansing	3857	-845	3853	-841
Stark	4197	-1285	4188	-1286
Cherokee	4364	-1452	4362	-1478
Morrow Sh	4678	-1766	4675	-1763
Morrow SD	4712	-1800	4712	-1800
St Gen	4722	-1810	4718	-1806
St Louis	4784	-1872	4784	-1872
Total Depth	4835	-2023	4833	-2021