



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: _____



1095905

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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Form	ACO1 - Well Completion
Operator	Atlas Operating LLC
Well Name	Cypress 3
Doc ID	1095905

All Electric Logs Run

DIL
CDL/CNL
MEL
Cbl

Form	ACO1 - Well Completion
Operator	Atlas Operating LLC
Well Name	Cypress 3
Doc ID	1095905

Tops

Name	Top	Datum
Indian Cave	2464	-795
Heebner Shale	3385	-1716
Douglas shale	3416	-1747
Lansing	3584	-1915
Stark Shale	3939	-2270
Cherokee Shale	4150	-2481
Miss. Chert	4191	-2522
Kinderhook Shale	4219	-2550
Viola	4399	-2730
Simpson Shale	4466	-2797
Simpson Sand	4476	-2807

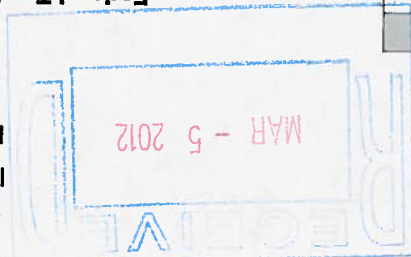
INVOICE

Invoice Number: 130330

Invoice Date: Feb 26, 2012

Page: 1

Federal Tax I.D.#: 20-8651475



OIL & GAS SERVICES, LLC



PO Box 93999
Southlake, TX 76092

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

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

Bill To:

Customer ID	Well Name# or Customer P.O.	Payment Terms
Atlas	Cypress #3	Net 30 Days
Job Location	Camp Location	Service Date
KSZ-01	Medicine Lodge	Feb 26, 2012
Due Date		3/27/12

Quantity	Item	Description	Unit Price	Amount
175.00	MAT	Class A Common	16.25	2,843.75
3.00	MAT	Gel	21.25	63.75
6.00	MAT	Chloride	58.20	349.20
175.00	SER	Handling	2.25	393.75
30.00	SER	Mileage	19.25	577.50
1.00	SER	Surface	1,125.00	1,125.00
30.00	SER	Heavy Vehicle Mileage	7.00	210.00
30.00	SER	Light Vehicle Mileage	4.00	120.00
1.00	EQP	8 5/8 Wooden Plug	68.00	68.00
1.00	EQUIP OPER	Matt Thimesch		
1.00	EQUIP OPER	Adam Miller		
1.00	OPER ASSIST	Garret McLemore		

8 5/8" Surfs

160015

Subtotal	5,750.95
Sales Tax	209.46
Total Invoice Amount	5,960.41
Payment/Credit Applied	
TOTAL	5,960.41

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

\$ 150.19

ONLY IF PAID ON OR BEFORE
Mar 22, 2012

ALLIED CEMENTING CO., LLC.

038016

Federal Tax I.D.# 20-5975804

SERVICE POINT: *Med. Lodge*

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

DATE	2-26-12	SEC	30	TWP	29S	RANGE	14	ON LOCATION	CALLED OUT	LOCATION	WELL #	LEASE	OLD OR NEW (Circle one)
JOB FINISH	4:30 am	JOB START	3:30 am	COUNTY	Wagon	STATE	KS	LOCATION	2600 W 3 N, 34 1/2 N		3	Cypress	NEW

OWNER *Atlas Operating*

CEMENT AMOUNT ORDERED

175 SA A + 3 1/2 cc + 2 1/2 gal

COMMON	A 175	@	16.25	2843.75
POZMIX		@		
GEL	3 SC	@	28.25	85.75
CHLORIDE	6 SC	@	58.20	349.20
ASC		@		

HANDLING	175	@	2.25	393.75
MILEAGE	550 / mi			607.20
TOTAL				4257.65

DEPTH OF JOB	270			
PUMP TRUCK CHARG	1125.00			
EXTRA FOOTAGE				
MILEAGE	50	@	2.00	210.00
MANIFOLD				
Light Vehicle	30	@	4.00	120.00
TOTAL				1455.00

PLUG & FLOAT EQUIPMENT *8 5/8*

SALES TAX (If Any)	5780.65			
TOTAL CHARGES	5780.65			
DISCOUNT	20%			
IF PAID IN 30 DAYS	4624.52			

CONTRACTOR	<i>WJ #2</i>
TYPE OF JOB	<i>2.00</i>
HOLE SIZE	12 1/2
CASING SIZE	8 5/8
TUBING SIZE	DEPTH 270
DEPTH	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	20'
PERFS	DISPLACEMENT
	16 1/2 H2O

PUMP TRUCK	CEMENTER <i>Mark Thompson</i>
# 471/302	HELPER <i>Adam Walker</i>
# 364	DRIVER <i>Garret M. / Donny W</i>
BULK TRUCK	
BULK TRUCK	
DRIVER	

REMARKS:
*Bulk PVC pump 3 blks of cement
 m road pump 175 SA A 3 ft 2
 stop. Rotate the
 stop 16 blks of shaft in 500 ft
 cement off car.*

CHARGE TO: *Atlas Operating*
 STREET _____
 CITY _____ STATE _____ ZIP _____

TERMS AND CONDITIONS listed on the reverse side.
 You are hereby requested to rent cementing equipment
 and furnish cement and helper(s) to assist owner or
 contractor to do work as listed. The above work was
 done to satisfaction and supervision of owner agent or
 contractor. I have read and understand the "GENERAL

PRINTED NAME *Ryle Smith*
 SIGNATURE *Ryle Smith*

INVOICE

Invoice Number: 130368
 Invoice Date: Mar 3, 2012

Page: 1

Federal Tax I.D.#: 20-8651475



PO Box 93999
 Southlake, TX 76092

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

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

Bill To:

Customer ID	Well Name# or Customer P.O.	Payment Terms
Atlas	Cypress #3	Net 30 Days
Job Location	Camp Location	Service Date
KS2-02	Medicine Lodge	Mar 3, 2012
		Due Date
		4/2/12

Quantity	Item	Description	Unit Price	Amount
325.00	MAT	ASC	19.00	6,175.00
1,625.00	MAT	KoiSeal	0.89	1,446.25
152.00	MAT	FL-160	17.20	2,614.40
11.00	MAT	Clapro	31.25	343.75
415.00	SER	Handling	2.25	933.75
30.00	SER	Mileage	45.65	1,369.50
1.00	SER	Production	2,405.00	2,405.00
30.00	SER	Heavy Vehicle Mileage	7.00	210.00
1.00	SER	Manifold Head Rental	200.00	200.00
30.00	SER	Light Vehicle Mileage	4.00	120.00
1.00	EQP	5 1/2 Rubber Plug	73.00	73.00
1.00	EQP	5 1/2 Reg Guide Shoe	240.00	240.00
1.00	EQP	5 1/2 AFU Insert	236.00	236.00
16.00	EQP	5 1/2 Centralizers	49.00	784.00
1.00	CEMENTER	David Felio		
1.00	CEMENTER	Ron Gilley		
1.00	EQUIP OPER	Eddie Piper		
1.00	OPER ASSIST	George Wright		
<div style="border: 1px solid blue; padding: 5px; display: inline-block;"> RECEIVED MAR 19 2012 </div>				
Account # 170005 Comet Property # 160015 Descrp. 5 1/2 Road Acctg. Period 5 1/2 Road				
Subtotal			17,150.65	
Sales Tax			750.48	
Total Invoice Amount			17,901.13	
Payment/Credit Applied				17,901.13
TOTAL				17,901.13

\$ 3430.13
 ONLY IF PAID ON OR BEFORE
 Mar 28, 2012
 ALL PRICES ARE NET, PAYABLE
 30 DAYS FOLLOWING DATE OF
 INVOICE. 1 1/2% CHARGED
 THEREAFTER. IF ACCOUNT IS
 CURRENT, TAKE DISCOUNT OF

054054

ALLIED OIL & GAS SERVICES LLC

Federal Tax I.D. # 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Medicine Lodge

DATE	3-3-12	SEC	30	TWP	29S	RANGE	01W	CALLBD OUT	ON LOCATION	JOB START	JOB FINISH
LEASE	3	WELL #	3	LOCATION	Zenda Ks, Newman, Kan	COUNTY	Kingman	STATE	Ks.		
OLD OR NEW	(circle one)										

OWNER Atlas

CEMENT AMOUNT ORDERED 3255K A 50TS *Kolsalt
 5% F-1160
 Capro 12gals Fast 500gals

COMMON			
POZMIX			
GEL			
CHLORIDE			
ASC	325	5X	19.00
			6175.00
			1446.25
			-89
			1446.25
			1720
			2614.40
			3425
			343.75

HANDLING	415	2.25	933.75
MILAGE	12450 / 11		1349.50
TOTAL			1288.25

DEPTH OF JOB	46.53		
PUMP TRUCK CHARGE			2405.00
EXTRA FOOTAGE			
MILAGE	30	7.00	210.00
MANIFOLD			200.00
Light Utility Truck			120.00
TOTAL			2955.00

Rubber Plug	73.00	73.00
Reg Guide Shoe	240.00	240.00
Reg Insent	236.00	236.00
16 Cent	49.00	49.00
TOTAL		333.00

SALES TAX (If Any) _____
 TOTAL CHARGES 17,150.65
 DISCOUNT 207
 IF PAID IN 30 DAYS 13,720.52

CONTRACTOR Un #2
 TYPE OF JOB Production
 HOLE SIZE 7 7/8
 CASING SIZE 6 1/2
 TUBING SIZE 4 1/2
 DEPTH 46.53
 DEPTH 46.41
 DRILL PIPE DEPTH
 DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT 110 1/2 BLS

#	DRIVER
#381-250	DRIVER (George W)
#471-302	HELPER Eddie A
PUMP TRUCK	CENTERMAN (Ron A)
	David F.

REMARKS:
 Pumped 3 Alcol 500gal Asf 3000 gal
 Plugged out 2000 gal pump 275 ft
 of 150 cement for wash pump 275 ft
 Started displacement pumped plug 1700
 Plug Displacement

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

TERMS AND CONDITIONS "listed on the reverse side."
 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.

SIGNATURE *Bob Young*
 PRINTED NAME _____

TO: Allied Oil & Gas Services, LLC.

PATRICK J. DEENIHAN

Licensed Geologist No. 254

4502 Spye'ace Circle

(316) 640-5611

Wichita, KS. 67226

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

OPERATOR Atlas Operating, LLC

LEASE CYPRESS # 3

FIELD GOETZ

LOCATION 2600' FSL ± 330' FT ± (N/4-NE-NE-SE)

SEC. 30 TWP. 29 RGE. 9 W

COUNTY Kingman STATE KS

TRACTOR VAL ENERGY, INC

CONTRACT 2-25-12 CORP. 3-03-12

WELL ID 455' LOG TO 468'

SAMPLES SAVED FROM 2500' TO T.O.

DRILLING TIME KEPT FROM 3000' TO T.O.

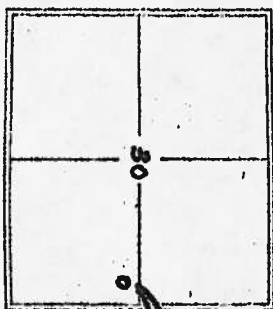
SAMPLES EXAMINED FROM 2500' TO T.O.

GEOLOGICAL SUPERVISION FROM 2880' TO T.O.

WELL ID 3300' TYPE HOLE CHEMICAL

DATE 12-09-5-2847-00-00

FORMATION	TOP	LOG	DATE	TOP	DATE	STRUCT.
ZAVINO SAND	2444	(775)	2444	(775)		+8
WINDYBROOK SH	2385	(716)	2385	(716)		+6
WINDYBROOK SH	3414	(747)	3414	(747)		+1
LABANSKY	3584	(787)	3584	(787)		+11
STARBUCK SHALE	3739	(828)	3739	(828)		+12
CHESTER SH.	4150	(880)	4150	(880)		+11
MISS. CHEST	4191	(882)	4190	(882)		+13
MISS. LIM.	4210	(884)	4210	(884)		+12
KIND. SH.	4219	(885)	4223	(885)		+7
KIND. LIM.	4301	(893)	4323	(893)		+34
VIOLA	4377	(900)	4401	(900)		+35
STAMP. SAND	4446	(907)	4410	(907)		+33
STAMP. SAND	4476	(909)	4440	(909)		+32
ARGONIE	4576	(919)	4576	(919)		N/A



ELEVATION
KB 1669'
DF
GL 1659'
Measurements Are All From KB

CASING RECORD

SURFACE 3 7/8" STD 22'

PRODUCTION 5 1/2" TO T.O.

WELL LOG SURVEYS
SUPERIOR

REMARKS AS A RESULT OF POSITIVE STRUCTURE SAMPLE SHOWS, E-LOG CALCULATIONS & GAS READINGS FROM GAS DETECTOR UNIT - IT WAS RECOMMENDED AND AGREED UPON BY ALL PARTIES CONCERNED THAT 3 1/2" CSG BE RUN ON THIS WELL TO FURTHER EVALUATE.

RESPECTFULLY SUBMITTED

BY: PATRICK J. DEENIHAN
PETROLEUM GEOLOGIST

LEGEND

Anhydrite	Salt	Sandstone	Shale	Grit sh	Limestone	Col.Limo	Chert	Dolomite

SCALE " = 100'

DRILLING TIME	DEPTH	SAMPLE DESCRIPTION	REMARKS
	3000		6:30 AM DEPTH
			MIRU - 2-25-12 SPUD @ 8pm
			2-26-12 - 272'
			2-27-12 - 1620'
			3-28-12 - 2823'
			2-29-12 - 3600'
			3-01-12 - 4180'
			3-02-12 - 4685' - TO
			GAS KICKS NOT LAGGED TO DEPTH
			INDIAN CAVE
			2340 = 450 UNIT - RECYCLE
			2399 = 399 UNIT
			2443 = 250 UNIT - RECYCLE
			2463 = 100 UNIT
			2520 = 200 UNIT - RECYCLE - INCR
			2563 = 260 UNIT
			2633 = 452 UNIT - RECYCLE
			2665 = 100 UNIT - RECYCLE
			2763 = 600 UNIT - RECYCLE
			2785 = 380 UNIT

REFERENCE WELL FOR STRUCTURAL COMPARISON

CYPRESS # 1, SEC 30-29-9 W (330' FSL ± 1420' FSL) ATLAS OPERATING, LLC'S

248 KICKS NOT LOGGED TO DRIFT
INDIAN CAVE
2340 = 450 UNIT) RECYCLE
2379 = 399 UNIT)
2443 = 250 UNIT) RECYCLE
2463 = 100 UNIT)
2520 = 200 UNIT) RECYCLE - INCR
2563 = 260 UNIT)
2633 = 452 UNIT) RECYCLE
2665 = 100 UNIT)
2704 = 600 UNIT) RECYCLE
2735 = 380 UNIT)
2835 = 600 UNIT) RECYCLE
2867 = 425 UNIT)

50' SAMPLES - PULVERIZED
NOT ABLE TO LOG 5' TO
NOT MUDDED UP & POC BIT

50

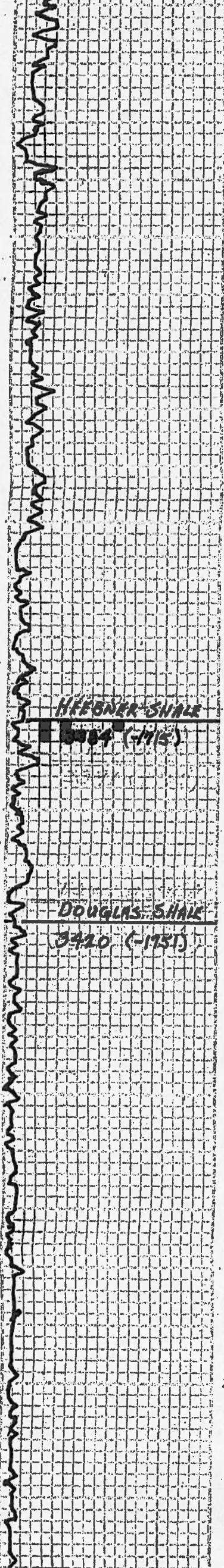
3100

50

3200

SAMPLES PULVERIZED
OF - NO VALUE

50



3300

DISPLACED

50

SH, ROUND GRAY

SH, BLACK CARB

HEEBNER SHALE

3384 (-1715)

17

SH, BLACK CARB

150 UNIT TOTAL GAS

3400

DOUGLAS SHALE

3420 (-1751)

11

SH, GRAY DK GRAY-ARGIL TO SILTY

50

SH, A7A

3500

SH, GRAY DK GRAY-SILTY

3500

50

SH, A7A

LANSING

3584 (-1915)

LS, INT. CRN-FIN-2LN-SL-F382

3600

VIS: 34 WT: 8.9

SH, GRY'S

VIS: 37 WT: 9.0 WL: 13.2
CPL: 9,000 LCM: 0

LS, INT. CRN-GRY-SH-19 FIN-2LN
CHALKY

50

3700

SH, GRY'S - TR. OF SAND - ARGIL

LS, INT. CRN-TAN-12 GRY-FIN-2LN
SL-F382-SUB CHALKY

SH, GRY, SAND - LS, A7A

50

LS, INT. CRN-FIN-2LN-SL-F382
SUB CHALKY NO. SNOW

3800

LS, A)A - GRV SH

50

LS, WHT - GRV - SING - CHALKY
FN - RLD - No. 5 No. W

LS, A)A - SH - 1954 - DAM - 00L
SHALEY - No. 5 No. W

LS, A)A

3900

LS, A)A - INCREASE IN SOLS
CHALKY No. 5 No. W

LS, A)A

STARK SHALE

3941 (-2272)

SH, BLACK CARB.

100 WGT TOTAL GAS - No RECYCLE
73 WGT BACK 61000

50

LS, WHT - GRV - SING - CHALKY - No. 5 No. W
ALL FISS - CHALKY AT DEPTH
No. 5 No. W

LS, A)A

SH, BLACK CARB.

SH, BLACK CARB, DK GRV - GRV
ARGH

LS, GRV - GRV - SING - FN - RLD - 301 -
FSSU

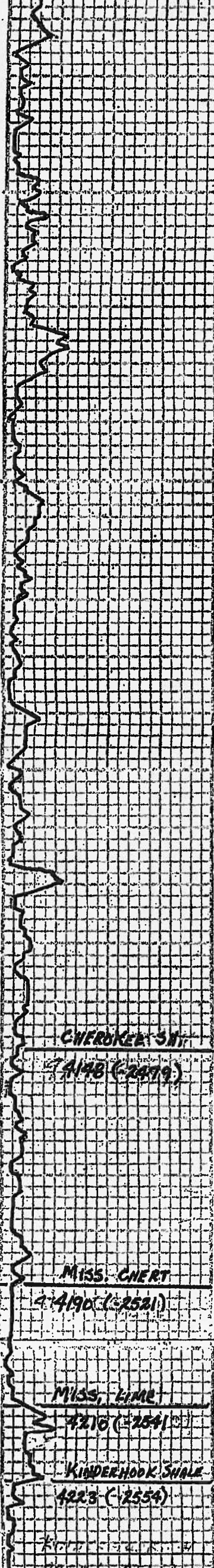
4000

SH, GRV - ARG.

LS, WHT - GRV - SING - RLD - 1/2 SH - FSSU
TAL OF CHARTY - FN - No. 5 No. W

SH, DRABD - LT TO DK GRV - JUNE
VARI - COLOR

SH, A)A



4000

50

4100

50

4200

SH, BLACK CARB.

SH, BLACK CARB, DK GRAY - GRAY
ARGN

LS, GRAY - GING - FA - XLN - SLI -
FSSG

SH, GRY - ARG.

LS, DKT GRY - V FA - XLN - V SLI - FSSG
PAC OF CHERTY 4PL. No SHOW

SH, ABUND RT TO DK GRAY - JUNE
VARI-COLOR

SH, A/A

SH, BLACK CARB.

LS, LT GRY - CRN - TAN - SING / MOTT
FA - TO - CRN - TAN - V - F - FSSG
No SHOW

SH, BLACK CARB.

LS, LT GRY - CRN TO TAN - SING / MOTT
FA - TAN - SUB - CHALKY - No SHOW
(V - F - FSSG - 9)

LS, A/A - INCR IN GRY SHALES.

SH, BLACK CARB - GRY, GRN, BRO
ARGN. D) DEPTH

LS, LT GRY - TAN - MOTT - CHALKY -
FA - TAN - V - F - DUNE FSSG - No SHOW

LS, A/A VARI - SHALEY

CHEROKEE SH.
4198 (-2479)

SH, BLACK CARB.

SH, BLACK CARB.

SH, ABUND - GRY - ARGL, ABUND - LT GRN
TO - GRN STRTY

MISS Δ - V - 006. W) FA - XLN TO INTER - MID
VFA Δ - ABUND - BRN TO DK BRN STN -
V - SLI - ODR - FA - 307 TO 3047K DUAL - ABUND
NSFO.

MISS. CHERT
4190 (-2521)

MISS. LIME
4210 (-2541)

KINDERHOOK SHALE
4223 (-2554)

LS, CRN - GRY - SING DEASE MID
XLN - DKT - GRY - FRESH CHERT
No SHOW

LS, A/A - SUB - CHALKY W) DEPTH

122-142 UNIT TOTAL GAS
42-52 UNIT BACK GROUND

KINDERHOOK SHALE
4223 (-2554)

7177-52000
71800-22000

50

LS, A)A - SUB-CHALKY W/DRY

SH, BLACK CARB - GRAY GRN - ARGIL

SH, DR GRAY - GRAY - LT GRN TO GRN

SH, A)A BECOMING V-SILTY

4300

SH, BLACK, GRAY - ARGIL - SH, DR GRAY
LT GRN - SILTY

SH, A)A ABUND. PYRITE

SH, BLACK CARB - ABUND. VARI-COLOR
ARGIL & SILTY

KINDERHOOK LIMB
4335 (-2666)

7177-52000
71800-22000

50

LS, WHIT. GRN - TAN - FINE - TAN - SUB -
FRESH TRC OF LIMY TO GRAY DRUSE
FRESH CHERT - SILTY - SH - GRYS
& GRN'S

LS, A)A - No SHOW

SH, DR GRAY - GRAY - ARGIL TO SILTY

SH, BLACK CARB.

4400

LS, WHIT. GRN - TAN - FINE - TAN - SUB -
CHALKY LT. SILTY - No SHOW

VIOLA
4404 (-2735)

7177-52000
71800-22000

LS, /GOLD/CHERT - GRN - TAN - SILTY/ROTT -
F - FINE - TAN - DRUSE DOE TO V. W. WIRE
LIM - F - SUB - V - GRAY (SOME DRUSE)
TRC OF ROSE GAS - F - TO V - DRUSE
GOLD FLUOR. TRC OF LEO UPON CHERT

262 UNIT TOTAL GAS
264 UNIT TOTAL GAS RECYCLE
48 TO 83 UNIT BACK GROUND.

A)A DECK TO LFO - V.G. DRUSE &
G-FLUOR A)A

262 UNIT TOTAL GAS
262 UNIT TOTAL GAS
60 UNIT AVERAGE ON BACK GROUND

50

LS, CHERTY DRUSE - STILL DRUSE TO FINE
COL - FINE - TAN - G-DRUSE - DECK TO
STN & FLUOR

248 UNIT TOTAL GAS
240 UNIT TOTAL GAS
60 AVER. BACK GROUND

LS, WHIT. GRN - TAN - SILTY/ROTT - ABUND
GRN - SILTY TO SIL - SOY SH - PYRITE
& CLANG - No SHOW

SIMPSON SHALE
4470 (-2801)

SIMPSON SAND
4480 (-2811)

SH, LT GRN - GRN - CLANG - SILTY TO
ARGIL - SOME GRAY TO DR GRAY ARGIL

SS, CLANG TO TAN TO GRN - V - TAN - GRN -
V - FRABLE - V - GRN - SILTY - GRAY
F - G - SUB - F - V - GRN - TRC OF ROSE
GAS BUBBLES - SUB - TAN TO RO - FRABLE

240 UNIT TOTAL GAS
300 UNIT TOTAL GAS - 83 UNIT BACK GROUND

SIMPSON SHALE

4470 (-2801)

SIMPSON SAND

4480 (-2811)

4500

CFS

50

ARBUCKLE

4576 (-2901)

4600

RTD-4655

LTD-4658

50

LS, MNT-CRM-SING/NOTT-ABARD
GRN-SUTY TO SLL-SOY SH-PYRITIC
4.6840-NO SHAN

SH, LF GRN-GRN-CLARK-SUTY TO
ARGL-SOAR GRAY TO DR GRAY-ARGL

SS, CLEAR TO TAN TO GRN-V-FN-GRN-
V-FRABLE-V-GRN-SING-SUTY GRN
F-4-SLIP-F-VG-ARGL-THE SP-GRN
GRN-BUBBLES-SP-ANG TO RD-FRABLE
SORTED TO PARTLY SORTED

SS, CLEAR TO LT TAN (GRN) (GRN) (GRN)
SHY-ARGL-SUTY TO SLL-SOY SH-ANG
TO SO-RO-F-GRN-UPON DRABING
V-STRONG-ODOR-GRN-SUTY TO SUTY
ROCK (BRIGHT GOLD TO DULL) (GRN)
FRABLE TO H-FRABLE-SORTED TO
V-SORTED

SS, A/A - (A) V-GRN IN A/FN POS
V-SING, ODOR.

SH, SS, SS CLEAR-FRABLE-GRN
No SHAN - (A) SUTY GRN - V-SSO-
V-FRABLE.

SS, CLEAR-TAN-V-FN-TAN-GRN-RO 7
Sub-RO-F-GRN IN V-FN POS
Could be SLIP-V-SLIP-GRN-V-FRABLE
F-SUTY-FRABLE TO SEMI-FRABLE
V-F-SUTY-BRIGHT EDGE FAVOR-
PRE-GRN-DULL TO NO FAVOR.

SS, A/A - DRABING IN PT-NO CLEAN
GRN-V-SUTY SHAN IN SS-FAVOR
IN GLAUCONITE & PYRITIC
DOL, MNT TO TAN-FN-GRN-SUTY-GRN
BLOCKY IN PART NO SHAN

DOL, A/A - NO SHAN

DOL-FN-TO SUCROSIC-SARREN

DOL-A/A

DOL, A/A - MNT IN MNT TO CR-SUTY
BLOCKY-NO SHAN

240 UNIT TOTAL GAS
60 AUR. BACK GROUND

240 UNIT TOTAL GAS
300 UNIT TOTAL GAS - 83 UNIT BACKGROUN

310 UNIT TOTAL GAS
310 UNIT TOTAL GAS - 60 TO 98 UNIT
BACK GROUND

245 UNIT TOTAL GAS - BACKGROUNO =
224 UNIT TOTAL GAS - 60 TO UNIT

250 UNIT TOTAL GAS - RECYCLE
225 UNIT TOTAL GAS

VIS: 47 WT: 9.5 WL: 12.4
CML: 606 LCM: 34

T.D. REACHED @ 8:30 P.M
ON - 3-02-12