



KANSAS CORPORATION COMMISSION 1056483
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 # 30717

Name: Downing-Nelson Oil Co Inc

Address 1: PO BOX 1019

Address 2: _____

City: HAYS State: KS Zip: 67601 + _____

Contact Person: Ron Nelson

Phone: (785) 621-2610

CONTRACTOR: License # 31548

Name: Discovery Drilling

Wellsite Geologist: Marc Downing

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 #: _____

04/21/2011 04/27/2011 04/28/2011

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-051-26133-00-00

Spot Description: _____

NE NE SW SE Sec. 13 Twp. 13 S. R. 19 East West

1180 Feet from North / South Line of Section

1520 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Ellis

Lease Name: Alma Herl Well #: 1-13

Field Name: _____

Producing Formation: None

Elevation: Ground: 2053 Kelly Bushing: 2061

Total Depth: 3753 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 224 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: 16000 ppm Fluid volume: 320 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Downing Nelson Oil Company Inc.

Lease Name: Connie 1-29 License #: 30717

Quarter NE Sec. 29 Twp. 13 S. R. 21 East West

County: Trego Permit #: D30417

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 Garrison Date: 06/09/2011



1056483

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Alma Herl Well #: 1-13
 Sec. 13 Twp. 13 S. R. 19 East West County: Ellis

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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input 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 Attached	Top Attached Datum Attached
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 <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
List All E. Logs Run: Attached			

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 Pipe	12.25	8.6250	23	223.85	Common	150	2% Gel & 3% CC

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input 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 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 <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Alma Herl 1-13
Doc ID	1056483

All Electric Logs Run

Mirco
Sonic
Dual Indcution
Compansated Density/Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Alma Herl 1-13
Doc ID	1056483

Tops

Top Anhydrite	1348	+714
Base Anhydrite	1389	+673
Topeka	3085	-1023
Heebner	3325	-1263
Toronto	3344	-1282
LKC	3370	-1308
BKC	3596	-1534
Arbuckel	3665	-1603

ALLIED CEMENTING CO., LLC. 039683

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

SERVICE POINT:
Russell Ks.

DATE <u>4-21-2011</u>	SEC. <u>13</u>	TWP. <u>B S</u>	RANGE <u>19 W</u>	CALLED OUT	ON LOCATION	JOB START <u>10:30 PM</u>	JOB FINISH <u>7:00 PM</u>
LEASE <u>ALMA HERL</u>	WELL# <u>1-13</u>	LOCATION <u>Hays Ks T-70 EXIT #52</u>			COUNTY <u>ELLIS</u>	STATE <u>KANSAS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>Y8 S 1 1/2 W 1/2 N INTO</u>					

CONTRACTOR Discovery D&L Rig #4 (Mire) OWNER

TYPE OF JOB Cement Surface

HOLE SIZE 12 1/4 T.D. 223'

CASING SIZE 8 3/8 New DEPTH 222'

TUBING SIZE 23# CSG DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 13 1/4 BBL

CEMENT			
AMOUNT ORDERED	<u>150</u> sx	<u>Com.</u>	
	<u>2%</u>	<u>Gel</u>	
	<u>3%</u>	<u>CC</u>	
COMMON	<u>150</u>	@ <u>16.25</u>	<u>2437.50</u>
POZMIX		@	
GEL	<u>3</u>	@ <u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>5</u>	@ <u>58.20</u>	<u>291.00</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>158</u>	@ <u>2.25</u>	<u>355.50</u>
MILEAGE	<u>111/54/mile</u>		<u>486.64</u>
TOTAL			<u>3634.39</u>

EQUIPMENT

PUMP TRUCK CEMENTER Glenn

398 HELPER WOODY

BULK TRUCK

378 DRIVER RON

BULK TRUCK

DRIVER

REMARKS:

Ran 5 new JTS 23# 85/8 CSG.

Set @ 222 Received CIRCULATION.

Cement w/ 150 sx Com 2% Gel, 3% CC.

Displace 13 1/4 BBL H₂O & Shut in @

250#. Cement did -

CIRCULATE TO SURFACE.

THANKS

CHARGE TO: Downing & Nelson Oil

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>1125.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>56</u>	@ <u>7.00</u>	<u>392.00</u>
MANIFOLD		@	
	<u>Volume 56</u>	@ <u>4.00</u>	<u>224.00</u>
		@	
TOTAL			<u>1741.00</u>

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helner(s) to assist owner or

ALLIED CEMENTING CO., LLC. 039690

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

SERVICE POINT:

Russell KS

DATE <u>4-28-2011</u>	SEC. <u>13</u>	TWP. <u>13S</u>	RANGE <u>19W</u>	CALLED OUT	ON LOCATION	JOB START <u>3:00 AM</u>	JOB FINISH <u>3:30 AM</u>
LEASE <u>ALMA HERL</u>	WELL # <u>1-13</u>	LOCATION <u>Hay's I-70 Exit #157</u>	<u>YBS 1W Y2 NINTO</u>			COUNTY <u>ELLIS</u>	STATE <u>KANSAS</u>
OLD OR (NEW) (Circle one)							

CONTRACTOR Discovery Drilling Rig #4
TYPE OF JOB Rotary Plug
HOLE SIZE 7 7/8 T.D. @ 3753
CASING SIZE 8 5/8 SURFACE DEPTH @ 222
TUBING SIZE _____ DEPTH _____
DRILL PIPE 4 1/2 X-H DEPTH @ 3644
TOOL _____ DEPTH _____
PRES. MAX _____ MINIMUM
MEAS. LINE _____ SHOE JOINT _____
CEMENT LEFT IN CSG. _____
PERFS. _____
DISPLACEMENT _____

EQUIPMENT

PUMP TRUCK CEMENTER Glenn
398 HELPER Woody
BULK TRUCK _____
341 DRIVER Bob GB
BULK TRUCK _____
_____ DRIVER _____

REMARKS:

- 25 SX @ 3644
- 25 SX @ 1375
- 100 SX @ 800
- 40 SX @ 275
- 10 SX @ 40'
- 15 SX @ 70' inside hole.
- 30 SX @ 70' hole.

THANKS

CHARGE TO: Downing & Nelson Oil Co.

STREET _____
CITY _____ STATE _____ ZIP _____

CEMENT AMOUNT ORDERED	<u>245 SX @ 60</u>	<u>40 48 GEL</u>
<u>4 # FLO Seal per SX.</u>		
COMMON	<u>147</u>	@ <u>16.25</u> <u>2388.75</u>
POZMIX	<u>98</u>	@ <u>8.50</u> <u>833.00</u>
GEL	<u>8</u>	@ <u>21.25</u> <u>170.00</u>
CHLORIDE		@ _____
ASC		@ _____
<u>Flo Seal 64#</u>		@ <u>2.70</u> <u>169.70</u>
HANDLING	<u>255</u>	@ <u>2.25</u> <u>573.75</u>
MILEAGE <u>111.5/8/15</u>		<u>785.40</u>
TOTAL		<u>4915.60</u>

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>1250.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>56</u>	@ <u>7.00</u>	<u>392.00</u>
MANIFOLD <u>56</u>	@ <u>4.00</u>	<u>224.00</u>
TOTAL		<u>1866.00</u>

PLUG & FLOAT EQUIPMENT

<u>8 5/8 Plug</u>		<u>64.00</u>
	@	
	@	
	@	
	@	
	@	

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment
and furnish cementer and helper(s) to assist owner or

Date: 4-29-11

District: _____

License #: _____

Op Name: Brinkman,eyer

Spot: _____ Sec 23 Twp 26 S Rng 19

County: Allen

Lease Name: _____ Well #: _____

Session Point	Attribute (Example: Oil-AB-2)	Well # or Unit	Description/Miscellaneous Information (Example: 7S2, SCPJ)
RRI 01	OIL-AB		DP Burried ^{37.76241} ^{-95.20049}
RRI 02	OIL-AB		652.5P ^{37.76241} ^{-95.27716}
RRI 03	OIL-AB		Burried ^{37.76236} ^{-95.29943}
RRI 04	OIL-AB		652P ^{37.76423} ^{-95.29934}
RRI 05	Water Well		Old Windmill's Ruine ^{37.76450} ^{-95.30022}
RRI 05	OIL-AB		Possible Gaswell Conversion to Water Well.
RRI 06	OIL-AB		6525P ^{37.76241} ^{-95.29701}
RRI 07	OIL-AB		10DP ^{37.76244} ^{-95.29682}
4-29-11			
LRO 09	OIL-AB		652.5P ^{37.76604} ^{-95.30065}
LRO 10	OIL-AB		652.5C ^{37.76524} ^{-95.29831}
LRO 11	OIL-AB		652.5P ^{37.76521} ^{-95.29719}
LRO 12	OIL-AB		25C ^{37.76611} ^{-95.29839}

Retain 1 Copy District Office
Send 1 Copy to Conservation Division

Date: 2-25-11

District: _____

License #: _____

Op Name: William Rottelstein

Spot: 1-E Sec 23 Twp 26 S Rng 19 1 2

County: Allen

Lease Name: Glenn Roberts Well #: _____

Session Point	Attribute (Example: Oil-AB-2)	Well # or Unit	Description/Miscellaneous Information (Example: 7S2, SCPJ)
GRD 01	GAS-AR-2		2.5 C F1 @ 60ft 37.76874 -95.29627
GRD 02	GAS-AR-2		652.5 C Rotted off 37.76813 -95.29584
GRD 03	GAS-AR-2		2.521F 37.76142 -95.29584
GRD 04	GAS-AR		Burried (drilled 1810?) 37.76258 -95.29627
GRD 05	DISP-AR		652.5 C 37.76395 -95.29028
GRD 06	GAS AD		Burried (drilled 1937?) 37.76473 -95.29156
GRD 07	GAS AB		Burried 37.76305 -95.29985

Frank Meyer

Retain 1 Copy District Office
Send 1 Copy to Conservation Division

Date: 4-29-11

District: _____

License #: _____

Op Name: Brinkmeyer

Spot: 550 Sec 23 Twp 26 S Rng 19

County: Allen

Lease Name: Brinkmeyer Well #: _____

Session Point	Attribute (Example: Oil-AB-2)	Well # or Unit	Description/Miscellaneous Information (Example: 7S2, 5CPJ)
BRI 01	OIL-AB		DP Burried ^{37.76241} -95.30049
BRI 02	OIL-AB		652.5P ^{37.76246} -95.29712
BRI 03	OIL-AB		Burried ^{37.76236} -95.29943
BRI 04	OIL-AB		652P ^{37.76423} -95.29954
BRI 05	Water Well		Old windmill's Pump ^{37.76450} -95.30022
BRI 06	OIL-AB		Fossiliferous well connected to water well.
BRI 06	OIL-AB		652.5P ^{37.76241} -95.29701
BRI 07	OIL-AB		10DP ^{37.76244} -95.29682
4-29-11			
LRO 09	OIL-AB		652.5P ^{37.76604} -95.30065
LRO 10	OIL-AB		652.5C ^{37.76524} -95.29831
LRO 11	OIL-AB		652.5P ^{37.76521} -95.29719
LRO 12	OIL-AB		2.5C ^{37.76611} -95.29939

Retain 1 Copy District Office
Send 1 Copy to Conservation Division

Date: 3-16-2011

District: _____

License #: _____

Op Name: _____

Spot: AG 211 Sec 23 Twp 21 S Rng 19 E W

County: Lee

Lease Name: Lee Reports Well #: _____

Session Point	Attribute (Example: Oil-AB-2)	Well # or Unit	Description/Miscellaneous Information (Example: 7S2, 5CPJ)
LRO 01	OIL-AR		652.5C11PT 37.76785 -95.30529
LRO 02	OIL-AR		652.5C11PT 37.76783 -95.30532
LRO 03	OIL-AR		652.5C11PT 37.76785 -95.30434
LRO 04	OIL-AR		652.5P2PIPPT 37.76780 -95.30569
LRO 05	DISP-AR		652.P 37.76780 -95.30527
LRO 00	TRUCK BATTERY		TRUCK BATTERY - PIT 37.76780 -95.30527
	3-25-11		
LRO 06	OIL-AR		652.5C11PT (10.000) 37.76782 -95.30740
LRO 07	OIL-AR		652.5C11PT (10.000) 37.76782 -95.30740
LRO 08	OIL-AR		652.5C11PT (10.000) 37.76782 -95.30740
	4-27-11		
LRO 09	OIL-AR		652.5C11PT 37.76780 -95.30005
LRO 10	OIL-AR		652.5C11PT 37.76780 -95.30005
LRO 11	OIL-AR		652.5C11PT 37.76780 -95.30005
LRO 12	OIL-AR		652.5C11PT 37.76780 -95.30005

Retain 1 Copy District Office
Send 1 Copy to Conservation Division

Date: 4-29-11
 Op Name: Brinkmeyer
 County: Allen

District: _____ License #: _____
 Spot: _____ Sec 23 Twp 26 S Rng 19 /
 Lease Name: Brinkmeyer Well #: _____

Session Point	Attribute (Example: Oil-AB-2)	Well # or Unit	Description/Miscellaneous Information (Example: 7S2, 5CPJ)
RRI 01	OIL-AB		OP Burried ^{37.76241} -95.30049
RRI 02	OIL-AB		6S2.5P ^{37.76241} -95.27416
RRI 03	OIL-AB		Burried ^{37.76236} -95.29943
RRI 04	OIL-AB		6S2P ^{37.76423} -95.29954
RRI 05	Water Well		Old windmill Pump ^{37.76450} -95.30022
RRI 06	OIL-AB		Possible "lost well" converted to water well.
RRI 06	OIL-AB		6S2.5P ^{37.76241} -95.29701
RRI 07	OIL-AB		10DP ^{37.76244} -95.29682
LRO 09	OIL-AB		6S2.5P ^{37.76674} -95.30065
LRO 10	OIL-AB		6S2.5C ^{37.76524} -95.29831
LRO 11	OIL-AB		6S2.5P ^{37.76521} -95.29719
LRO 12	OIL-AB		2.5C ^{37.76611} -95.29939

Date: 3-25-11

District: _____

License #: _____

Op Name: 112114 Rottelstein

Spot: _____ E _____ Sec 23 Twp 26 S Rng 19 E W

County: Allen

Lease Name: Glenn Roberts Well #: _____

Session Point	Attribute (Example: Oil-AB-2)	Well # or Unit	Description/Miscellaneous Information (Example: 7S2, 5CPJ)
GRD 01	GAS-AR-2		65 2.5CF1 @ 66ft 37.76874 -95.29024
GRD 02	GAS-AR-2		65 2.5C Rotted off 37.76883 -95.29584
GRD 03	GAS-AR-2		2.521P 37.76742 -95.29584
GRD 04	GAS-AR		Burried (drilled 1800?) 37.76258 -95.29621
GRD 05	DISP -AB		65 2.5C 37.76395 -95.29029
GRD 06	GAS-AR		Burried (drilled 1900?) 37.76477 -95.29152
GRD 07	GAS-AB		Burried 37.76305 -95.29985

Kink Meyer

Date: 4-29-2011District: 3

License #: _____

Op Name: _____

Spot: 1510 Sec 22 Twp 26 S Rng 19 E MCounty: LINCOLNLease Name: Projects Well #: _____

Session Point	Attribute (Example: Oil-AB-2)	Well # (6/5 or Unit 6/2)	Description/Miscellaneous Information (Example: 7S2, 5CPJ)
RBT 01	INT-AB	2-4	652.5P 37.77618 -95.29727
RBT 02	INT-AB	19-12	652.5P cement 37.77613 -95.29729
RBT 03	INT-AB	72-9	652.5P 37.77510 -95.29745
RBT 04	OIL-AB		2.5P 37.77425 -95.29750
RBT 05	OIL-AB		2P 37.77299 -95.29697
RBT 06	OIL-AB	8-52	2.5P 37.77305 -95.29759
RBT 07	INT-AB		2.5C 37.77302 -95.29755
RBT 08	INT-AB	70	652.5P 37.77474 -95.29795
RBT 09	INT-AB	70-73	652.5C 37.77275 -95.29790
RBT 10	INT-AB	67	652.5P 37.77635 -95.29871
RBT 11	INT-AB		652.5P 37.77333 -95.29838
RBT 12	OIL-AB		652.5P 37.77482 -95.29848
RBT 13	OIL-AB		652.5P 37.77395 -95.29942
RBT 14	INT-AB		652.5P 37.77630 -95.30004
RBT 02	TRN RTRY		2 Gun Barrels 5' 37.77637 -95.30070
RBT 15	OIL-AB		652.5C 37.77533 -95.29919
RBT 16	OIL-AB		652.5C 37.77534 -95.30007
RBT 17	OIL-AB		2.5P 37.77464 -95.30077
RBT 18	INT-AB		652.5C 37.77482 -95.29997
RBT 19	OIL-AB		2.5P 37.77463 -95.29913
RBT 20	OIL-AB		2.5C 37.77409 -95.29903
RBT 21	INT-AB		2.5C 37.77424 -95.29952
RBT 22	OIL-AB		2.5C 37.77405 -95.30007
RBT 23	INT-AB		652.5P 37.77342 -95.30013
RBT 24	OIL-AB	Drilled off	652.5P 37.77351 -95.29955
RBT 25	INT-AB		652.5P 37.77360 -95.29944
RBT 26	OIL-AB		652.5C 37.77379 -95.29935
RBT 27	OIL-AB		2.5C 37.77290 -95.29751
RBT 28	OIL-AB		2.5C 37.77293 -95.29972
RBT 29	INT-AB		652.5C 37.77237 -95.29972
RBT 30	INT-AB		2.5C 37.77227 -95.29826

Retain 1 Copy District Office
Send 1 Copy to Conservation Division

Form 09/25/2007

Date: 4-29-11

District: _____

License #: _____

Op Name: Brinkneyer

Spot: _____ Sec 23 Twp 26 S Rng 19

County: Allen

Lease Name: Brinkneyer Well #: _____

Session Point	Attribute (Example: Oil-AB-2)	Well # or Unit	Description/Miscellaneous Information (Example: 7S2, 5CPJ)
RRI 01	OIL-AB		DP Burried ^{37.76241} -95.30049
RRI 02	OIL-AB		6S2.5P ^{37.76241} -95.27+10
RRI 03	OIL-AB		Burried ^{37.76236} -95.29943
RRI 04	OIL-AB		6S2P ^{37.76423} -95.24934
RRI 05	Water Well		Old Windmill's Ruins ^{37.76450} -95.3002
RRI 06	OIL-AB		Possible Caswell Connected to Water Well.
RRI 06	OIL-AB		6S2.5P ^{37.76241} -95.27701
RRI 07	OIL-AB		10DP ^{37.76244} -95.29682
LRO 09	OIL-AB		6S2.5P ^{37.76604} -95.30065
LRO 10	OIL-AB		6S2.5C ^{37.76524} -95.29831
LRO 11	OIL-AB		6S2.5P ^{37.76521} -95.29719
LRO 12	OIL-AB		2.5C ^{37.76611} -95.29939

Retain 1 Copy District Office
Send 1 Copy to Conservation Division

Form 09/25/2007

Date: 2-25-11

District: _____

License #: _____

Op Name: Wells-Retteldem

Spot: E Sec 23 Twp 26 S Rng 19 E W

County: Allen

Lease Name: Glenn Roberts Well #: _____

Session Point	Attribute (Example: Oil-AB-2)	Well # or Unit	Description/Miscellaneous Information (Example: 7S2, SCPJ)
GRD 01	GAS-AR-2		6 2.5C F1 @ 50ft. ^{37.76874} -95.29629
GRD 02	GAS-AR-2		6.52.5C Rotted off ^{37.76833} -95.29589
GRD 03	GAS-AR-2		2.5C 1P ^{37.76742} -95.29594
GRD 04	GAS-AB		Burried (drilled 1812?) ^{37.76258} -95.29624
GRD 05	DISP-AB		6.52.5C ^{37.76395} -95.29028
GRD 06	GAS AB		Burried (drilled 1900") ^{37.76473} -95.29156
GRD 07	GAS AB		Burried ^{37.76305} -95.29985.

Krinkmeyer










Retain 1 Copy District Office
Send 1 Copy to Conservation Division

Form 09/25/2007

DRILL STEM TESTS							
No.	Interval	IPP/Time	ISP/Time	FPP/Time	FSP/Time	GR-TR	RECOVERY
REMARKS AND RECOMMENDATIONS							

7315

LEGEND

	Anhydrite
	Salt
	Sandstone
	Shale
	Carb. sh.
	Limestone
	Ool. Lime
	Chert
	Dolomite

REMARKS

OIL SHOWS

SAMPLE DESCRIPTIONS

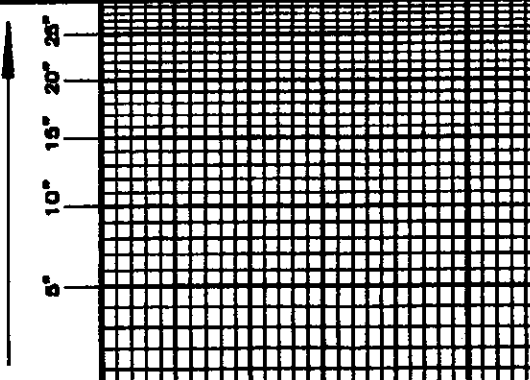
LITHOLOGY

--

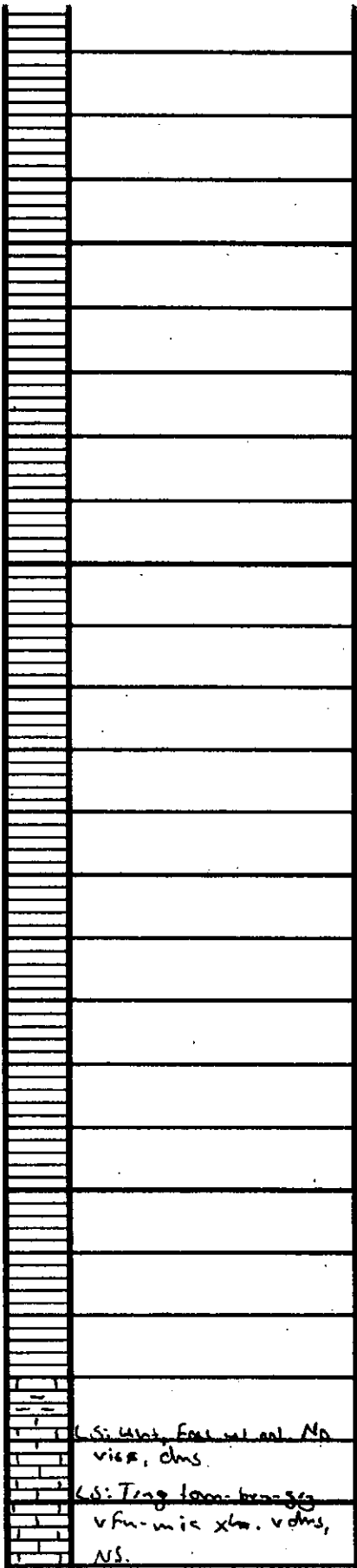
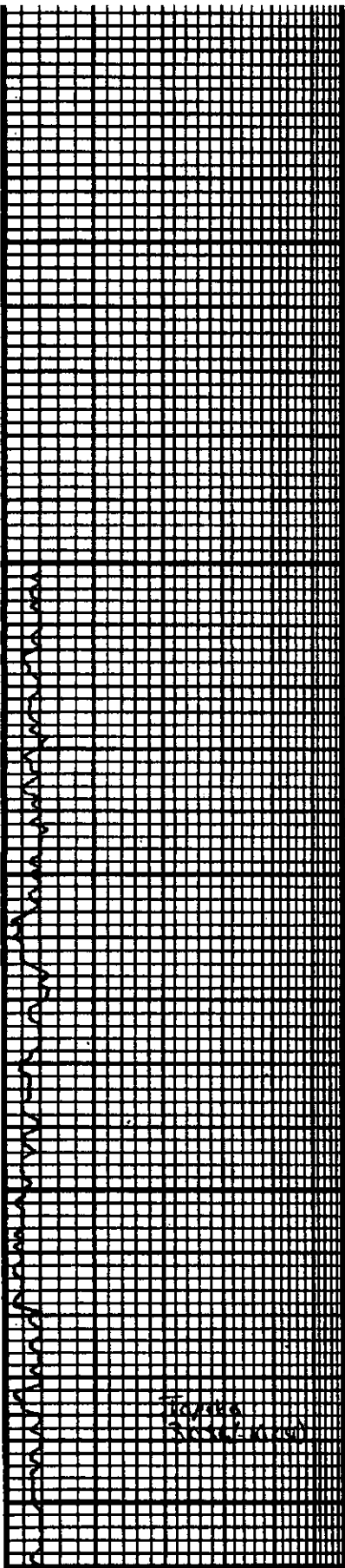
DEPTH

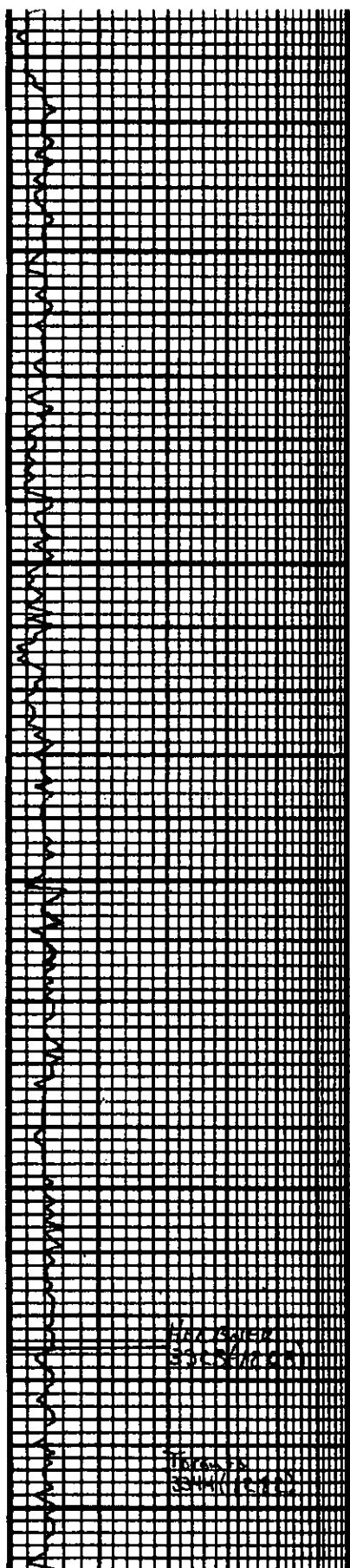
1350

DRILLING TIME IN MINUTES PER FOOT
Rate of Penetration Decreases

5" 10" 15" 20" 25"	
--------------------	---

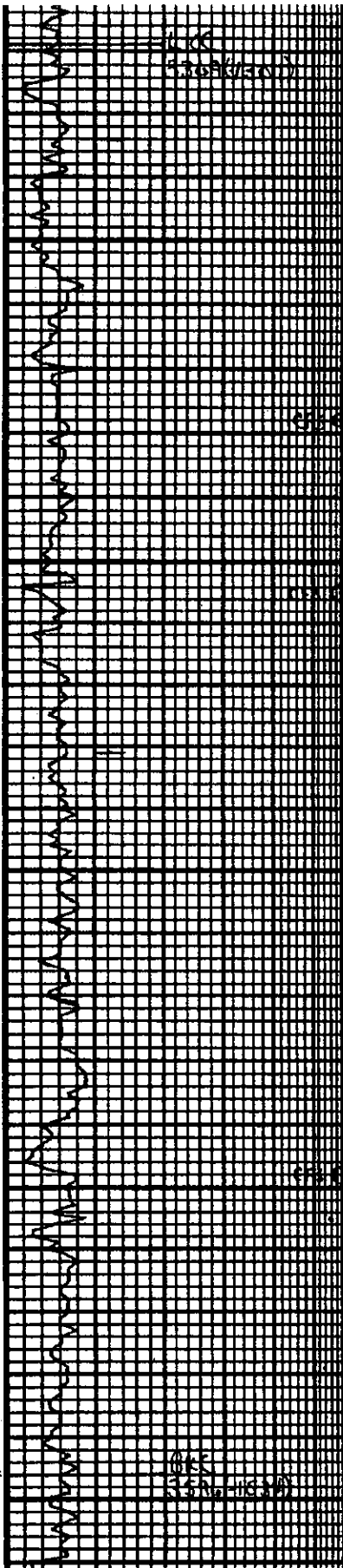
LOG 7710





	Sh: J3
	LS: form, fm and xln, gd int xln + app, Tet barren, No od.
	Sh: gry-blk
	Sh: gry
50	LS: form - can, med xln, foss per, dms
	LS: AIA w/ some gry LS: Trng mtd w/ dms
	LS: wht - can - form, med xln, subxln - chky, mtd. All NS
3200	Sh: Black Carb
	Sh: gry
	LS: wht, vfm - med xln, dms ex frag subxln, All NS
	LS: wht, subxln - chky, NS
	LS: AIA trng form, resid str, hry sfo,阜 od. gry chka. Sh: gry
	LS: wht - form, fm xln, dms.
50	Sh: Black Carb
	Sh: gry
	LS: wht, med xln, foss per, subxln in part.
	LS: form - gry - can, med xln, foss, dms. foss chka.
	Sh: gry
	LS: form, fm - med xln, dms w/ foss, mtd in part. Fr intxn g, fite. Fr bon str, rare sfo, Fr od.
3300	LS: form, med xln, foss, mtd. All per w/ NS.
	Sh: Black Carb
	Sh: gry
50	LS: wht - form, med xln, sbb dms, Fr intxn g, 14 bon str, mtd sfo. Many barren up, 阜 od.

Vis: 57 wt: 9.8
 DST #1
 3384-3428
 45-46-46-46



LS: tan brn, med xln, dalam Fr ind
 xln + vngs, stlly lite, Fr-gd
 brn stn, spttd SFO, If Od.
 Shi: gry

LS: tan, med xln, Fass, mlt bl.
 dms, prx

Shi: gry
 LS: whit, tan, Fass col est. Fr-gd
 int xln, col in pot, seat vngs
 Fr-gd sat stn Fr SFO gassy in
 pot. If Od.

Shi: S/D
 LS: wht, col w/ seat face Fr
 int col Fr-gd brn sat
 stn, spttd SFO. If Fr Od.

Shi: Black Carb

LS: tan, dalam w/ Fass Fr vngs
 x, stlly lite, gd brn stn + sat, seat
 SFO, Fr-gd Od.
 LS: wht - tan, est. Fr-gd int col x,
 gd brn stn in pot, spttd
 SFO, Fr-gd Od. Seat chky ex
 Shi: gry

LS: wht-ll tan, Fass - smt. Fr-gd
 int Fass, x, gd ll brn sat
 stn, spttd SFO, Fr-gd Od. Sub
 xln in pot.

LS: wht Fr xln, mostly chky
 1-2 pcs dala, Fr vngs, gd brn
 stn, If Od.
 Shi: Black Carb

Shi: gry
 LS: tan Fr xln, Fr Fr ind
 xln, hly lite, Fr brn stn,
 pr sat. spttd SFO, If Fr Od.

Shi: Black Carb

LS: tan, med xln, stlly dalam
 w/ few Fass, pr int xln, smt
 vngs, Fr sat stn, pr Fr SFO, gd
 Od, Free oil on cup.
 Shi: gry

LS: tan-whit, dalam med xln, seat
 Fass, gd sat w/ Fr-gd SFO, Ting Fr-gd
 acc pr w/ Fr-gd sat + gd gassy
 SFO, gd Od, Free oil on cup.

Shi: drk gry
 LS: wht, col, Fr-gd acc pr, chky,
 3-4 pcs w/ SFO in x, mostly
 banan. Fr-gd Od.

LS: Ting mostly prx +
 dms. Seat ex w/ Fr SFO
 in prooc pr. If Od.

Shi: drk gry - blk
 LS: wht-ll tan, smt Fass +
 col. pr Fr int xln, ll brn
 stn, spttd SFO, Fr Od.
 Shi: gry

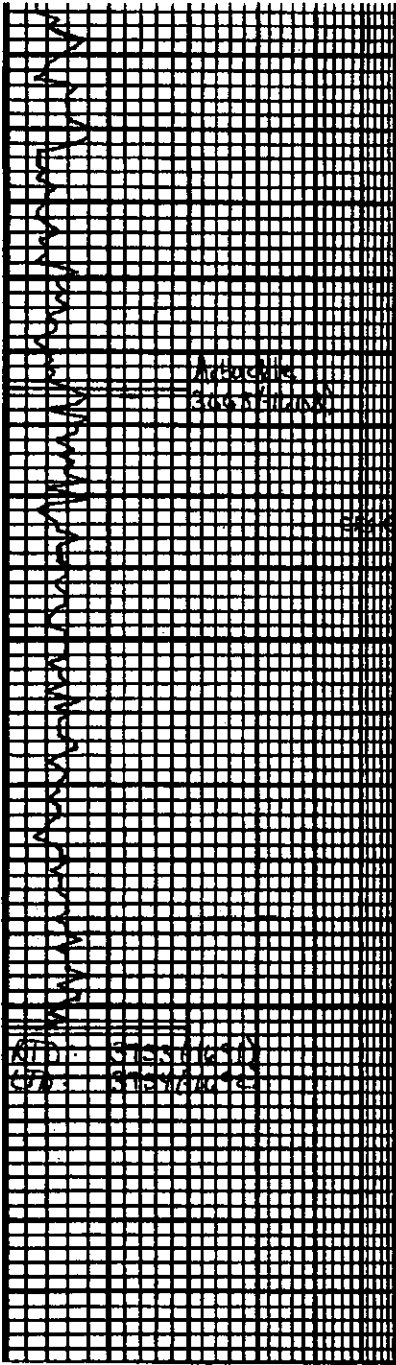
LS: tan-whit, Fr xln, seat
 dal, dms, prx

LS: 7' 01m
 F.F. 6" 61m / 1/2" 220
 I.F.F. 32-70
 F.F.A. 78-105
 S.I.A. 765-804
 N.P. 1643-1609
 Rec:
 70' OSMM 90% w
 120' UCM 10% w
 BHT: 115° Chl: 45 K

OST # 2
 3429-3455
 45-45-45-45
 I.F. 80.8 16min
 F.F. 80.8 81min
 I.F.A. 21-120
 F.F.P. 123-182
 S.I.A. 637-609
 N.P. 1683-1637
 Rec:
 45' OSMM 98% w
 300' MM 98% w
 BHT: 119° Chl: 45 K

Vis: 50 Wt: 9.1

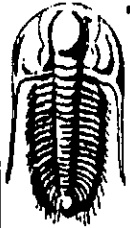
OST # 3
 3481-3549
 30-30-30-30
 I.F.F. 14-27
 F.F.A. 32-32
 S.I.A. 729-618
 N.P. 1730-1682
 Rec:
 18' mud w/ oil spk
 BHT: 103°



0-10m - red
 Sh: AIA
 LS: tom-wht, fr xln, ark
 Sl: brn-red
 }
 LS: wnt mod xln, ally
 m fld, dus
 Sh: brn-ggy
 Dolo: tom, fr rhom xln, fr intxln
 & fite in det. gd sat w/ gd
 SFO, ex friable. Fut Od.
 Dolo: tom-wht, scat ex AIA, much
 fr rhom xln, fr intxln, fite, & dus.
 Dolo: tom-wht, fr rhom xln, gd intxln
 & fite, ex friable. gd. vgd det w/ gd
 SFO, II-Fr Od.
 Dolo: frng wnt, mod-crs rhom
 xln, ex-friable intxln & scat frng
 fite. Fr sat w/ fr-gd SFO, hng
 in part. II-Fr Od.
 Dolo: wnt, scat AIA frng
 fite & suc xln. Fr SFO, II-
 Fr od. wnt. tom det chnta.
 Dolo: wnt - tom, suc xln
 frng mod-crs rhom xln, fr-
 gd intxln & friable. scat
 str, sattd SFO, II Od.
 Dolo: wnt - tom, mod-crs
 rhom xln, prd, fite, mostly
 barren.
 Dolo: wnt, crs rhom xln
 gd intxln & fr-gd SFO,
 Fut Od.

DST #4
 3666-3684
 20-30-30-30
 IFP: 12-13
 FFP: 14-16
 SIP: 69-37
 NA: 1879-1900
 Rec:
 2' mud w/ oil spots.
 QHT: III'

DST #5
 3674-3720
 30-30-10-0
 IFP: 25-36
 FFP: - -
 SIP: 989
 NP: 1948-1986
 Rec:
 20' SGM w/ oil spots.
 QHT: III'



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC
POB 1019
Hays, KS 67601
ATTN: Marc Dow ning

Alma Herl 1-13
S13-13s-19w Ellis,KS
Job Ticket: 43116 DST#: 1
Test Start: 2011.04.24 @ 23:21:00

Mud and Cushion Information

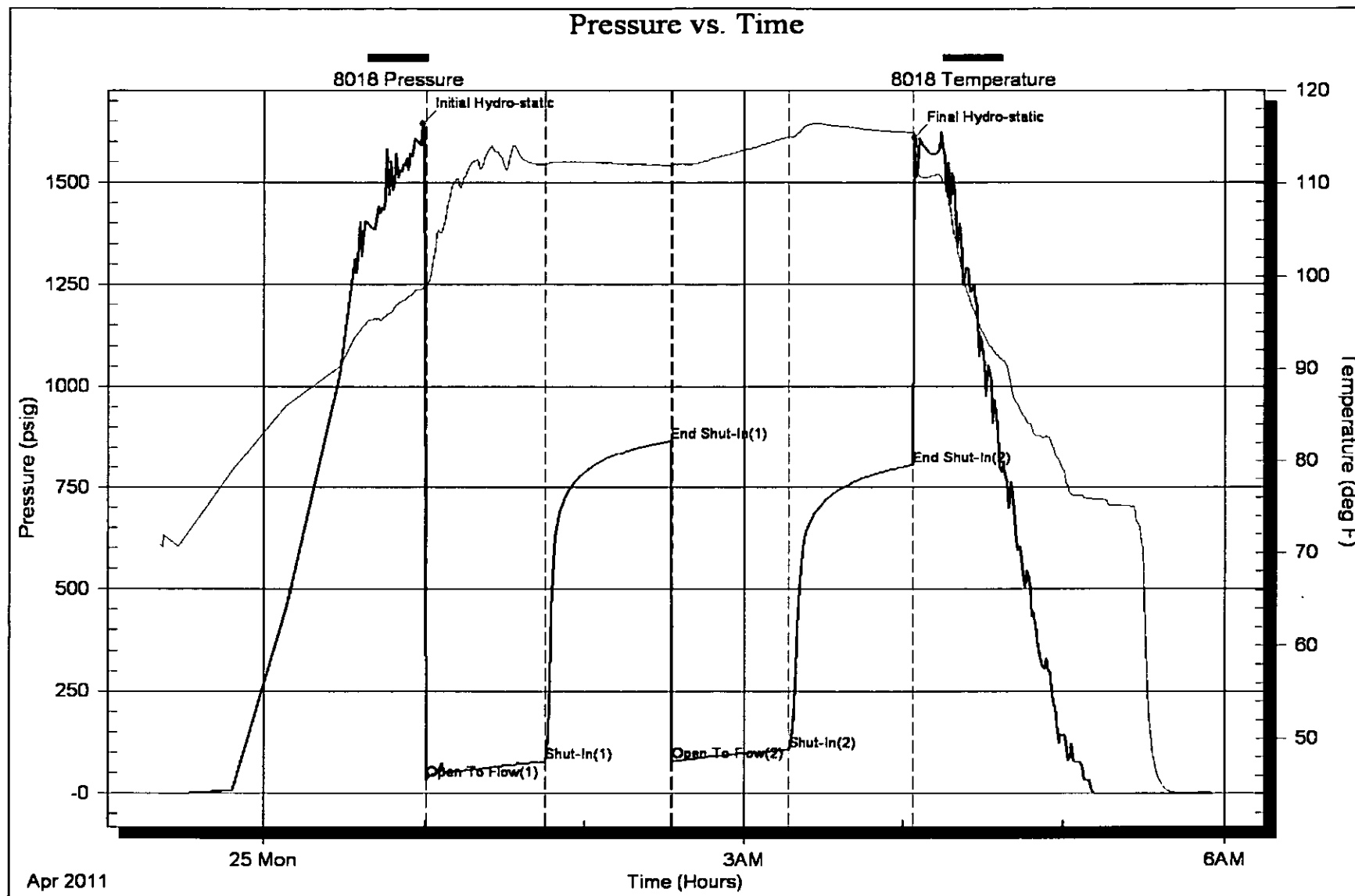
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 45000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.60 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1500.00 ppm		
Filter Cake: 1.00 inches		

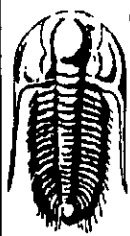
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	RW: .230 @ 48 Degrees F = 45000 PPM	0.000
120.00	WCM 10w 90m	1.401
70.00	OSMW 20m 80w	0.982

Total Length: 190.00 ft Total Volume: 2.383 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

DNOC
 POB 1019
 Hays, KS 67601
 ATTN: Marc Downing

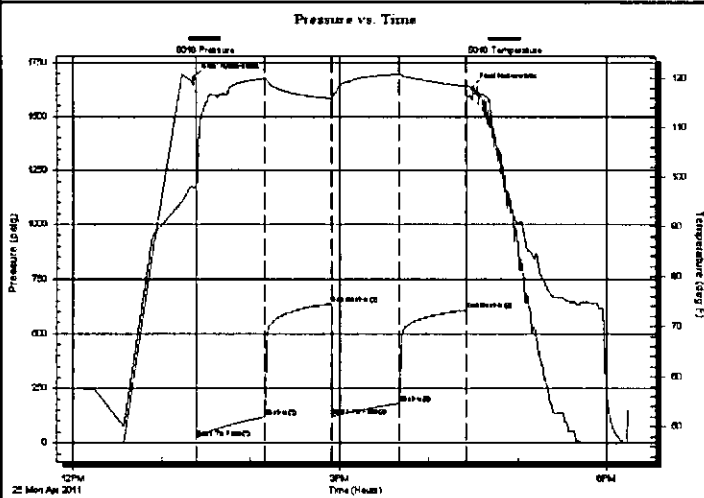
Alma Herl 1-13
S13-13s-19w Ellis,KS
 Job Ticket: 43117 **DST#: 2**
 Test Start: 2011.04.25 @ 12:07:00

GENERAL INFORMATION:

Formation: **LKC 'E-F'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:23:40
 Time Test Ended: 18:14:20
 Interval: **3428.00 ft (KB) To 3455.00 ft (KB) (TVD)**
 Total Depth: 3455.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Chuck Smith
 Unit No: 37
 Reference Elevations: 2062.00 ft (KB)
 2054.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8018 Inside
 Press@RunDepth: 181.46 psig @ 3447.00 ft (KB)
 Start Date: 2011.04.25 End Date: 2011.04.25
 Start Time: 12:07:05 End Time: 18:14:20
 Capacity: 8000.00 psig
 Last Calib.: 2011.04.25
 Time On Btm: 2011.04.25 @ 13:21:50
 Time Off Btm: 2011.04.25 @ 16:29:39

TEST COMMENT: IF: B.O.B. @ 16 min.
 IS: Weak surface return died at 5 min.
 FF: B.O.B. @ 31 min.
 FSI: No return.



PRESSURE SUMMARY

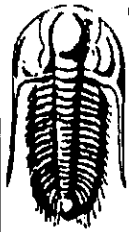
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1683.29	98.00	Initial Hydro-static
2	20.81	97.32	Open To Flow (1)
48	119.89	119.97	Shut-in(1)
93	637.35	115.99	End Shut-in(1)
94	122.85	115.92	Open To Flow (2)
138	181.46	120.76	Shut-in(2)
184	607.53	118.40	End Shut-in(2)
188	1637.19	117.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: .225 @ 50 Degrees F = 45000 PPM	0.00
300.00	MW 10m 90w	3.93
45.00	OSMW 20m 80w	0.63

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC

Alma Herl 1-13

POB 1019
Hays, KS 67601

S13-13s-19w Ellis,KS

Job Ticket: 43117

DST#: 2

ATTN: Marc Downing

Test Start: 2011.04.25 @ 12:07:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

45000 ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	RW: .225 @ 50 Degrees F = 45000 PPM	0.000
300.00	MW 10m 90w	3.926
45.00	OSMW 20m 80w	0.631

Total Length: 345.00 ft

Total Volume: 4.557 bbl

Num Fluid Samples: 0

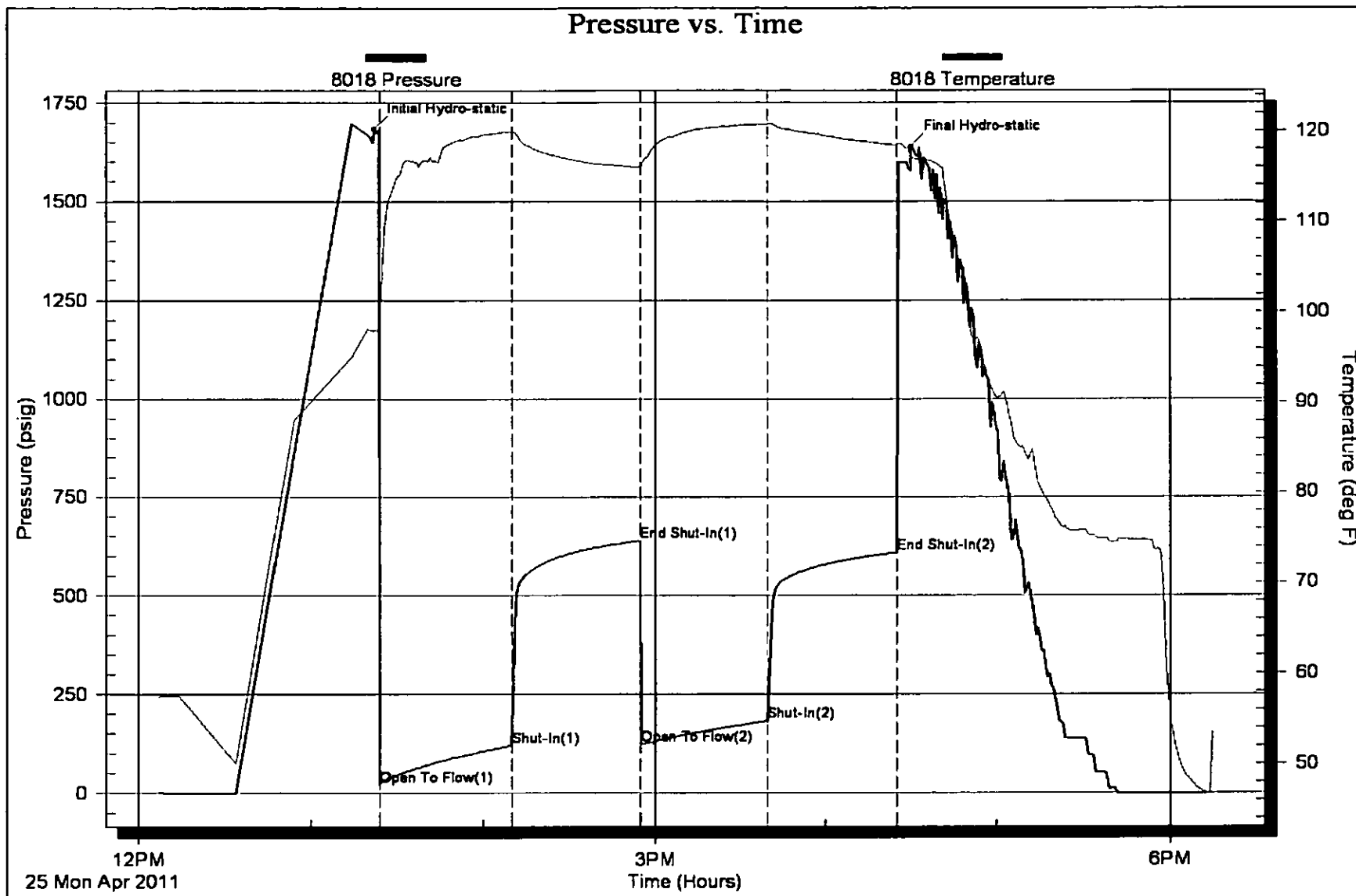
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

DNOC

Alma Herl 1-13

POB 1019
Hays, KS 67601

S13-13s-19w Ellis,KS

Job Ticket: 041815

DST#: 3

ATTN: Marc Downing

Test Start: 2011.04.26 @ 04:26:05

GENERAL INFORMATION:

Formation: **LKC "H,I,J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:13:00

Time Test Ended: 09:33:39

Test Type: Conventional Bottom Hole

Tester: Andy Carreira

Unit No: 39

Interval: **3481.00 ft (KB) To 3548.00 ft (KB) (TVD)**

Reference Elevations: 2062.00 ft (KB)

Total Depth: 3548.00 ft (KB) (TVD)

2054.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8352

Outside

Press@RunDepth: 32.54 psig @ 3485.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.04.26

End Date:

2011.04.26

Last Calib.: 2011.04.26

Start Time: 04:26:05

End Time:

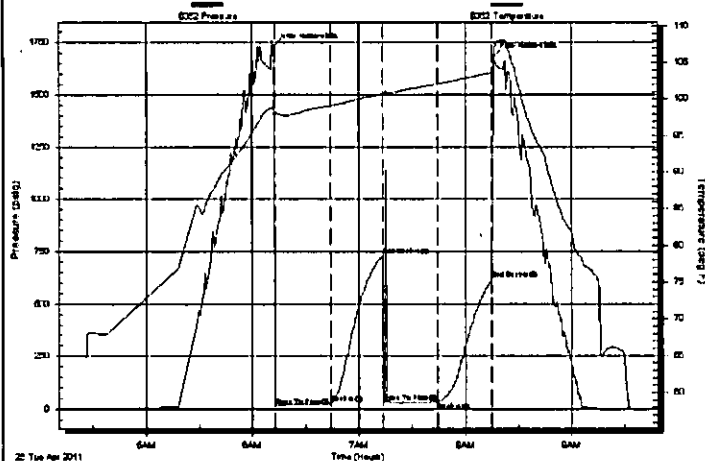
09:33:40

Time On Btm: 2011.04.26 @ 06:12:10

Time Off Btm: 2011.04.26 @ 08:16:00

TEST COMMENT: IF:(30min) Blow died in 15 min.
IS:(30min) No Return
FF:(30min) No Blow, Flushed, Surge, No Blow
FS:(30min) No Return

Pressure vs. Time



PRESSURE SUMMARY

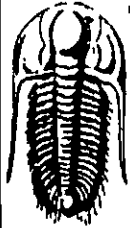
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1730.25	98.75	Initial Hydro-static
1	14.83	97.91	Open To Flow (1)
32	27.13	99.10	Shut-In(1)
62	729.69	100.69	End Shut-In(1)
62	32.03	100.37	Open To Flow (2)
93	32.54	102.09	Shut-In(2)
123	615.82	103.59	End Shut-In(2)
124	1682.51	105.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w /slight oil specks in tool	0.05

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC
POB 1019
Hays, KS 67601

Alma Herl 1-13
S13-13s-19w Ellis,KS
Job Ticket: 041815 DST#: 3
Test Start: 2011.04.26 @ 04:26:05

ATTN: Marc Dow ning

Mud and Cushion Information

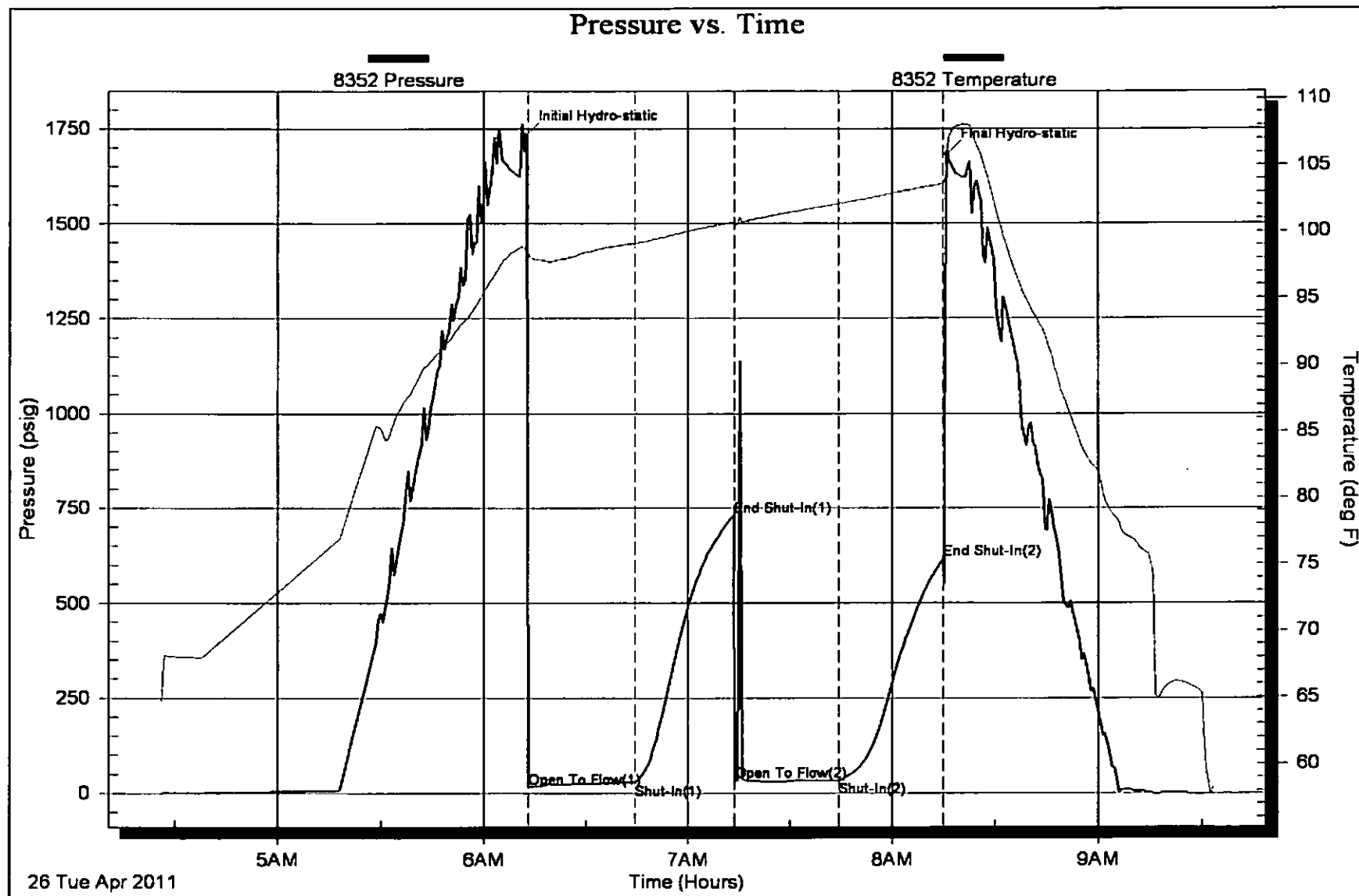
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

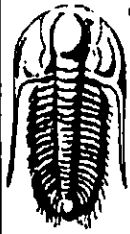
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w /slight oil specks in tool	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

DNOC
 POB 1019
 Hays, KS 67601
 ATTN: Marc Downing

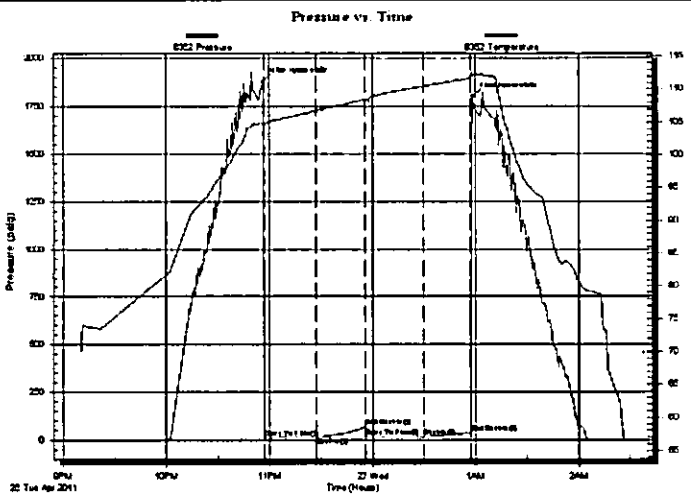
Alma Herl 1-13
 13-13s-19w Ellis,KS
 Job Ticket: 041816 DST#:4
 Test Start: 2011.04.26 @ 21:10:05

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: **22:56:50**
 Time Test Ended: **02:27:39**
 Interval: **3666.00 ft (KB) To 3684.00 ft (KB) (TVD)**
 Total Depth: **3684.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **Andy Carreira**
 Unit No: **39**
 Reference Elevations: **2062.00 ft (KB)**
2054.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8352 Outside
 Press@RunDepth: **15.90 psig @ 3667.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2011.04.26** End Date: **2011.04.27** Last Calib.: **2011.04.27**
 Start Time: **21:10:05** End Time: **02:27:40** Time On Btm: **2011.04.26 @ 22:56:20**
 Time Off Btm: **2011.04.27 @ 00:58:50**

TEST COMMENT: IF:(30min) Blow died in 5 min.
 IS:(30min) No Return
 FF:(30min) No blow ,Flushed, Surge, No blow
 FS: No Return



PRESSURE SUMMARY

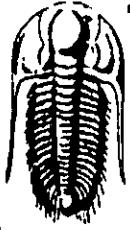
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1879.32	104.85	Initial Hydro-static
1	12.82	103.79	Open To Flow (1)
31	13.93	106.77	Shut-In(1)
60	68.86	108.49	End Shut-In(1)
60	14.46	108.47	Open To Flow (2)
94	15.90	110.45	Shut-In(2)
121	37.90	111.68	End Shut-In(2)
123	1800.48	112.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud w / oil specks in tool	0.01

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC
POB 1019
Hays, KS 67601
ATTN: Marc Downing

Alma Herl 1-13
13-13s-19w Ellis,KS
Job Ticket: 041816 DST#:4
Test Start: 2011.04.26 @ 21:10:05

Mud and Cushion Information

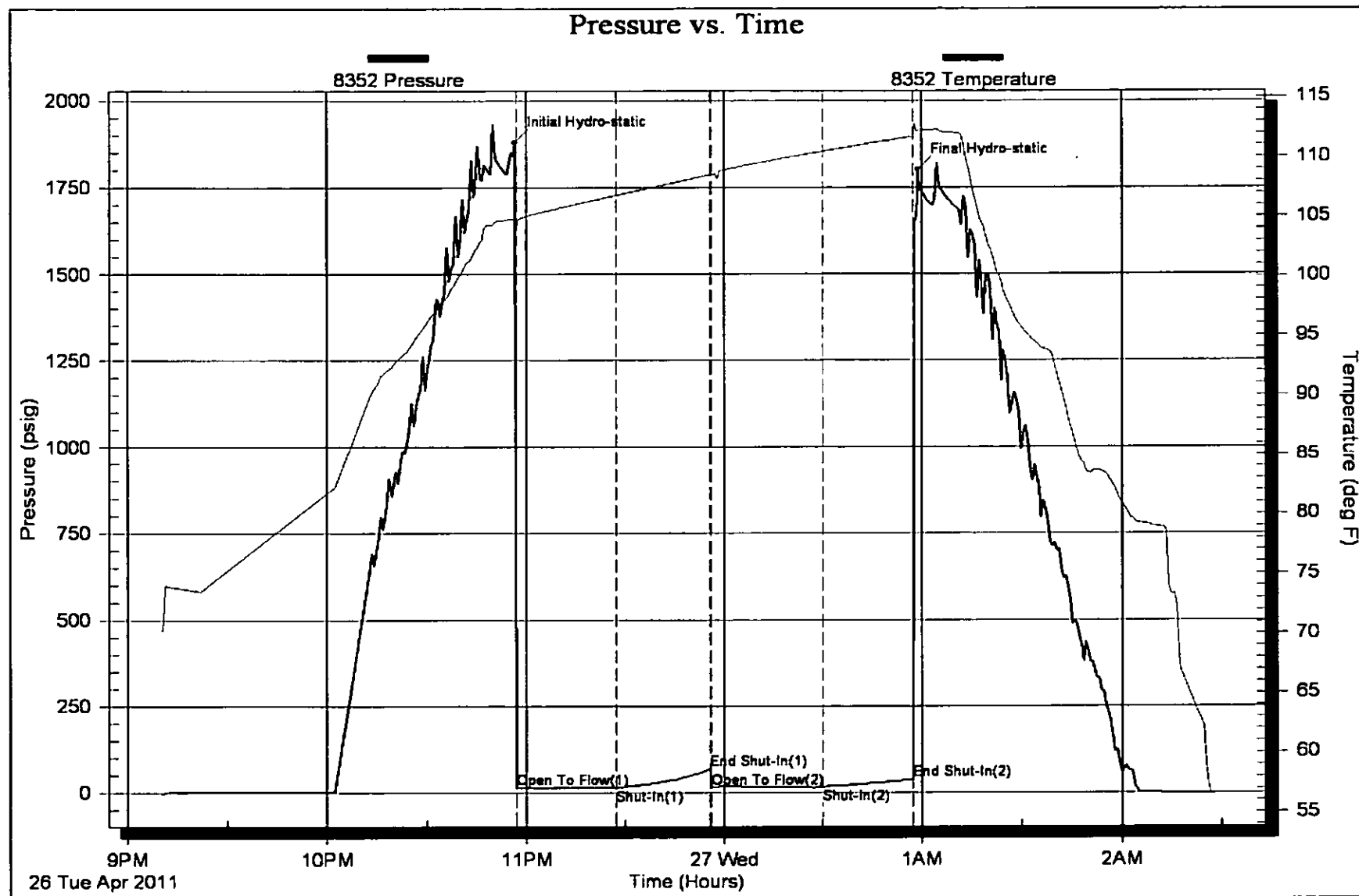
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

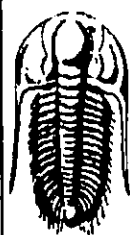
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud w / oil specks in tool	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

DNOC
 POB 1019
 Hays, KS 67601
 ATTN: Marc Downing

Alma Herl 1-13
 13-13s-19w Ellis, KS
 Job Ticket: 041817 **DST#: 5**
 Test Start: 2011.04.27 @ 15:38:05

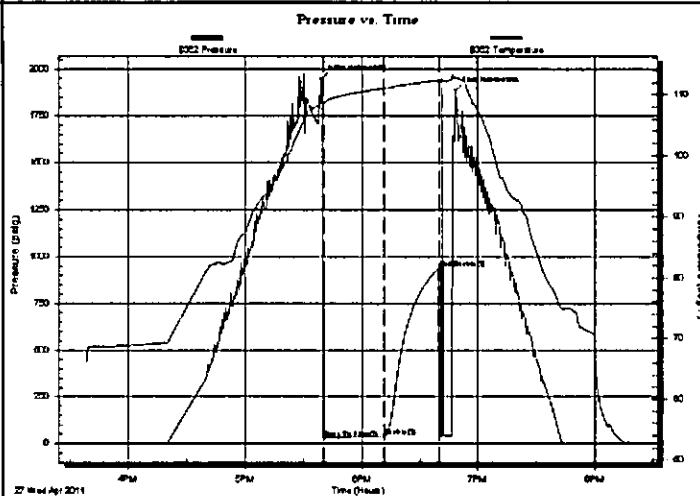
GENERAL INFORMATION:

Formation: Arbuckle	Test Type: Conventional Straddle
Deviated: No Whipstock: ft (KB)	Tester: Andy Carreira
Time Tool Opened: 17:40:00	Unit No: 39
Time Test Ended: 20:18:29	
Interval: 3674.00 ft (KB) To 3720.00 ft (KB) (TVD)	Reference Elevations: 2062.00 ft (KB)
Total Depth: 3754.00 ft (KB) (TVD)	2054.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair
	KB to GR/CF: 8.00 ft

Serial #: 8352 Outside

Press@RunDepth: 36.56 psig @ 3681.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2011.04.27	End Date: 2011.04.27
Start Time: 15:38:05	End Time: 20:18:29
	Last Calib.: 2011.04.27
	Time On Btm: 2011.04.27 @ 17:39:00
	Time Off Btm: 2011.04.27 @ 18:48:40

TEST COMMENT: IF:(30min) Blow died in 6 min.
 IS:(30min) No Return
 FF: No Blow ,Flushed,Surge,No Blow . Pulled Tool



PRESSURE SUMMARY

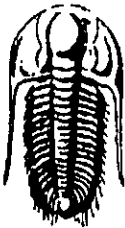
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1948.37	108.72	Initial Hydro-static
1	25.79	107.99	Open To Flow (1)
33	36.56	111.08	Shut-In(1)
61	938.98	112.39	End Shut-In(1)
70	1886.99	112.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SGMw /oil specks in tool	0.10

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

DNOC
POB 1019
Hays, KS 67601
ATTN: Marc Downing

Alma Herl 1-13
13-13s-19w Ellis,KS
Job Ticket: 041817 DST#: 5
Test Start: 2011.04.27 @ 15:38:05

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 17:40:00
Time Test Ended: 20:18:29

Test Type: **Conventional Straddle**
Tester: **Andy Carreira**
Unit No: **39**

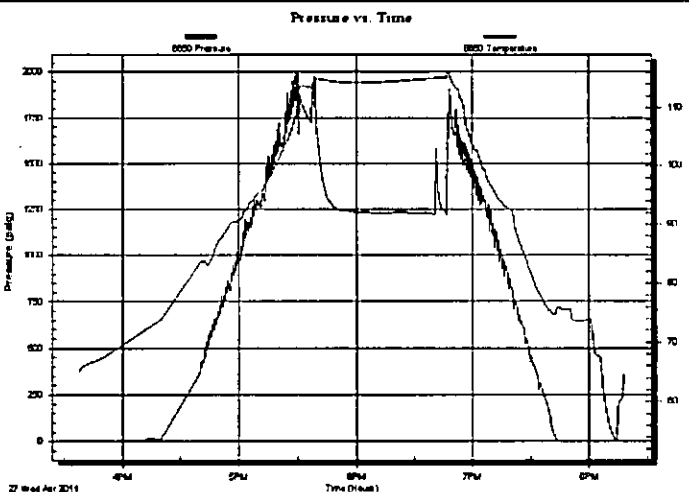
Interval: **3674.00 ft (KB) To 3720.00 ft (KB) (TVD)**
Total Depth: **3754.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2062.00 ft (KB)**
2054.00 ft (CF)
KB to GR/CF: **8.00 ft**

Serial #: **8650** **Below (Straddle)**
Press@RunDepth: **psig @ 3725.00 ft (KB)**
Start Date: **2011.04.27** End Date: **2011.04.27**
Start Time: **15:38:05** End Time: **20:17:50**

Capacity: **8000.00 psig**
Last Calib.: **2011.04.27**
Time On Btm:
Time Off Btm:

TEST COMMENT: IF:(30min) Blow died in 6 min.
IS:(30min) No Return
FF: No Blow ,Flushed,Surge,No Blow . Pulled Tool



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SGMw /oil specks in tool	0.10

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC
POB 1019
Hays, KS 67601
ATTN: Marc Dow ning

Alma Herl 1-13
13-13s-19w Ellis,KS
Job Ticket: 041817 DST#: 5
Test Start: 2011.04.27 @ 15:38:05

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 7.99 in³
Resistivity: ohm.m
Salinity: 4500.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	SGMw /oil specks in tool	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

