

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

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

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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 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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Raydon Exploration, Inc.
Well Name	Pope 1-30
Doc ID	1114262

All Electric Logs Run

Array Compensated True Resistivity Log
Borehole Compensated Sonic Array Log
Microlog
Dual Spaced Neutron Spectral Density Log
Cement Bond Log

Form	ACO1 - Well Completion
Operator	Raydon Exploration, Inc.
Well Name	Pope 1-30
Doc ID	1114262

Tops

Name	Top	Datum
Chase	2625	
Council Grove	2960	
Base Heebner	4345	
Toronto	4366	
Lansing	4478	
Marmaton	5117	
Morrow	5636	
Chester	5755	
St Genevieve/MRMC	5960	
St Louis	6105	

Summary of Changes

Lease Name and Number: Pope 1-30

API/Permit #: 15-119-21308-00-00

Doc ID: 1114262

Correction Number: 2

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	06/04/2012	02/08/2013
Producing Formation	Lansing	Morrow
Save Link	../..kcc/detail/operatorEditDetail.cfm?docID=1079956	../..kcc/detail/operatorEditDetail.cfm?docID=1114262



CONFIDENTIAL

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
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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: _____



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 Yes No
(Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No

Electric Log Submitted Electronically Yes No
(If no, Submit Copy)

List All E. Logs Run:

Log Formation (Top), Depth and Datum Sample
Name Top Datum

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
<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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Raydon Exploration, Inc.
Well Name	Pope 1-30
Doc ID	1079956

All Electric Logs Run

Array Compensated True Resistivity Log
Borehole Compensated Sonic Array Log
Microlog
Dual Spaced Neutron Spectral Density Log
Cement Bond Log

Form	ACO1 - Well Completion
Operator	Raydon Exploration, Inc.
Well Name	Pope 1-30
Doc ID	1079956

Tops

Name	Top	Datum
Chase	2625	
Council Grove	2960	
Base Heebner	4345	
Toronto	4366	
Lansing	4478	
Marmaton	5117	
Morrow	5636	
Chester	5755	
St Genevieve/MRMC	5960	
St Louis	6105	

Summary of Changes

Lease Name and Number: Pope 1-30

API/Permit #: 15-119-21308-00-00

Doc ID: 1079956

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	04/03/2012	06/04/2012
Completion Or Recompletion Date	04/02/2012	4/23/2012
Date of First or Resumed Production or SWD or Enhr Production - MCF Gas	04/03/2012 249	04/23/2012 109
Save Link	../..kcc/detail/operatorEditDetail.cfm?docID=1074868	../..kcc/detail/operatorEditDetail.cfm?docID=1079956



CONFIDENTIAL

WELL COMPLETION FORM

Form Must Be Typed
Form must be Signed
All blanks must be Filled

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
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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: _____



1074868

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:
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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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Raydon Exploration, Inc.
Well Name	Pope 1-30
Doc ID	1074868

All Electric Logs Run

Array Compensated True Resistivity Log
Borehole Compensated Sonic Array Log
Microlog
Dual Spaced Neutron Spectral Density Log
Cement Bond Log

Form	ACO1 - Well Completion
Operator	Raydon Exploration, Inc.
Well Name	Pope 1-30
Doc ID	1074868

Tops

Name	Top	Datum
Chase	2625	
Council Grove	2960	
Base Heebner	4345	
Toronto	4366	
Lansing	4478	
Marmaton	5117	
Morrow	5636	
Chester	5755	
St Genevieve/MRMC	5960	
St Louis	6105	

Cement Report

Customer Raydon	Lease No.	Date 12-27-11
Lease PoBe	Well # 1-30	Service Receipt 02264
Casing 4 1/2" 10.5" Depth 6220'	County Meade	State KS
Job Type 242-4 1/2" Production	Formation	Legal Description 30-33-30

Pipe Data		Perforating Data		Cement Data
Casing size 4 1/2" 10.5"	Tubing Size	Shots/Ft		Lead 125 sk
Depth TD-6220'	Depth	From	To	A-Con
Volume Disp-98.5 bbl	Volume	From	To	
Max Press 3400#	Max Press	From	To	Tail in 170 sk
Well Connection TD-6224'	Annulus Vol.	From	To	AA2
Plug Depth SJ-42' (6182')	Packer Depth	From	To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:30					on loc. - site assessment
7:30					spot trucks - rig up
7:30					start csg + float equip.
11:00					csg on btm, break circ. 45 min
11:05					safety meeting / ISA
11:55	300		5	4	pump 5 bbl H ₂ O spacer
11:57	300		12	4	pump 12 bbl Superflush
12:00	300		5	4	pump 5 bbl H ₂ O spacer
12:02			13	4	mix + pump 50 sk plug rod + mouse holes
12:15	200		33.3	6	mix + pump 75 sk A-Con @ 11.4# 2.49 g/sk, 14.93 gal/sk
12:25	200		45.7	6	switch to 1700sk AA2 @ 14.8# 1.51 g/sk, 6.64 gal/sk
12:35					wash pump plug lines
12:37	100		0	6.5	drop plug, disp csg
12:55	700		88	2	slow rate last 10 bbl of disp
1:00	1200		98.5	0	land plug, float held job complete

Service Units	34726	39111-19919	19827-19826
Driver Names	A. Quera	P. Martinez	D. Canaday

T. Thompson
Customer Representative

J. Bennett
Station Manager

A. Quera
Cementer

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

February 28, 2012

David E. Rice
Raydon Exploration, Inc.
1601 NW EXPRESSWAY, STE 1300
OKLAHOMA CITY, OK 73118-1462

Re: ACO1
API 15-119-21308-00-00
Pope 1-30
NE/4 Sec.30-33S-30W
Meade County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
David E. Rice

4200'-4232' LMS- LT GRY TO TAN; CRYPTO TO V-V-F-XLN OOLITIC IP'S, SUB-CHLK, SUB-SUCRO & PACKSTN; DUL YEL FLO IP'S; NO CUT; NO VIS POR; W/TRCS TAN, V-V-FN TO FN-XLN, SUB-SUCRO TO V-SUCRO, DUL YEL FLUOR, NO CUT, ABU PR FR TO GD PP, MICRO-PP & INTER POR POSS FROM ABOVE

4232'-4251' SH- LT TO MED GRY, V TO EXTRLY CALC GRDNG TO SHLY LMSTS TANISH IP'S

4251'-4265' SH- GRDNG TO SHLY LMSTS SIMILIAR 4232'-4251' W/ INTERBEDS SH'S BLACK-CARB

4265'-4299' SH- LT TO MED GRY SLI GREENISH IP'S SOFT & MUSHY

4299'-4319' LMS- LT GRY TO TAN; CRYPTO TO V-V-FN-XLN SUB-CHLK, SUB-SUCRO & PACKSTN; FOSS IP'S DUL YEL TO TRS LT YEL FLUOR; NO CUT; NO VIS POR

4319'-4330' SH- V-DRK GRY- CALC TO BLACK CARB

4330'-4337' LMS- SIMILIAR 4299'-4319'

4337'-4345' SH- V-DRK GRY TO BLACK-CARB

B. Heebner 4345' - 1625'

4345'-4349' LMS- SIMILIAR 4299'-4319'

4349'-4360' SH-LT GRY, GREENISH IP'S TO TRS LT GREEN

Toronto 4360' - 1640'

4360'-4372' LMS- ABU WHT TO CRM- CHLK & CRM TO TAN, GRYISH IP'S CRYPTO TO V-V-FN-XLN; ABU PHANTOM OOLITIC; DUL LT TO LT YEL FLUOR; NO CUT, NO VIS POR

4372'-4376' LMS- LT GRY TO TAN; CRYPTO TO V-V-FN-XLN; SUB-SUCRO & PACKSTN DUL YEL FLUOR; NO CUT; NO VIS POR

4376'-4389' LMS- SIMILIAR 4360'-4372'

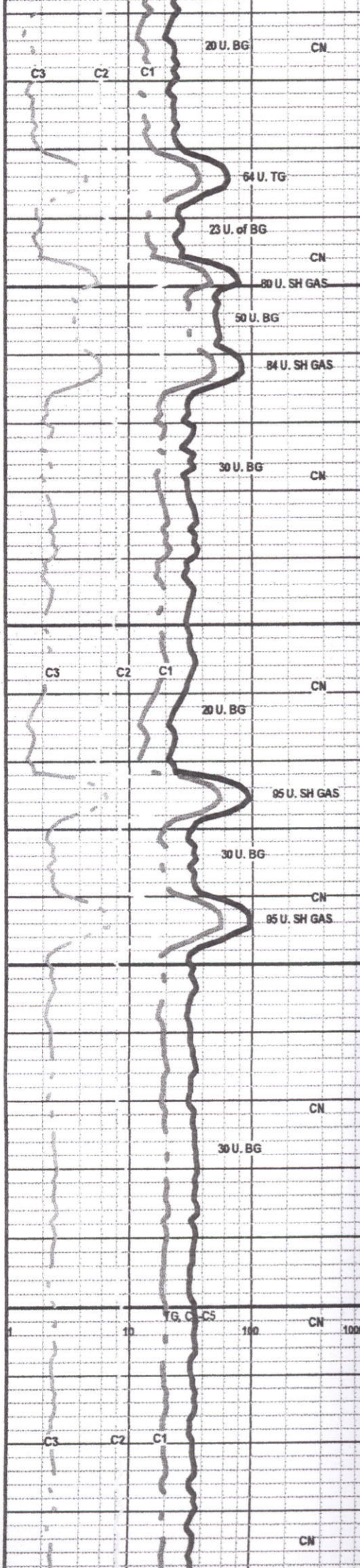
4389'-4409' LMS- LT GRY-SHLY TO TAN; CRYPTO TO V-V-FN-XLN TRS SUB-CHLK, SUB-SUCRO, PACKSTN & TRY SUB-LITHOGR SLI TO V FOSS IP'S; DUL YEL TO LT YEL FLUOR; NO CUT; NO VIS POR

4409'-4421' LMS- ABU WHT TO CRM-CHLK AND LT GRY TO TAN; CRYPTO TO V-V-FN-XLN; ABU SUB-CHLK; SUB-SUCRO TO TRS SUCRO & PACKSTN, PHANTOM OOLITIC IP'S; DUL LT TO LT YEL FLUOR; NO CUT; NO VIS POR

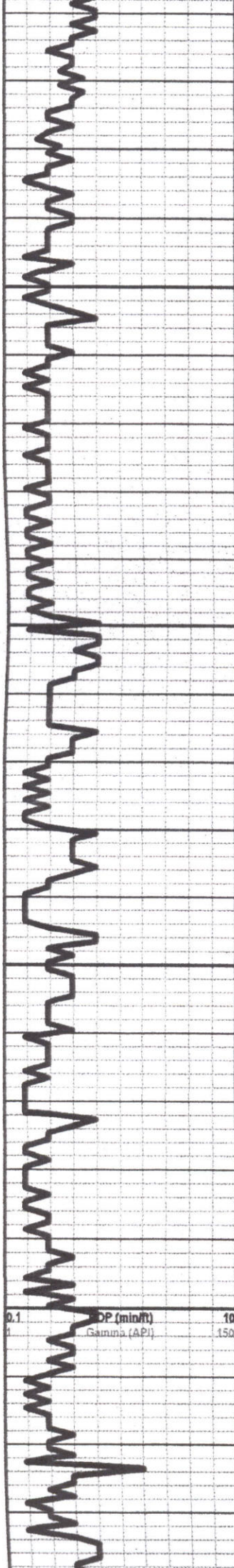
4421'-4426' LMS- SIMILIAR 4389 TO 4409

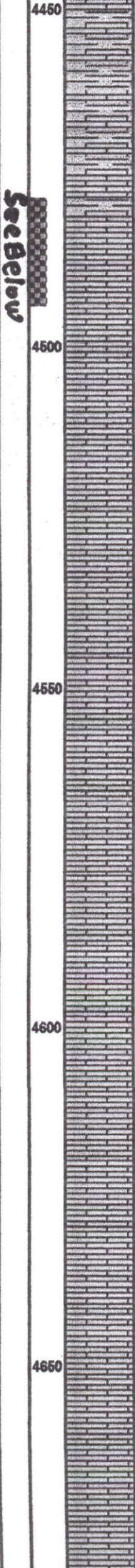
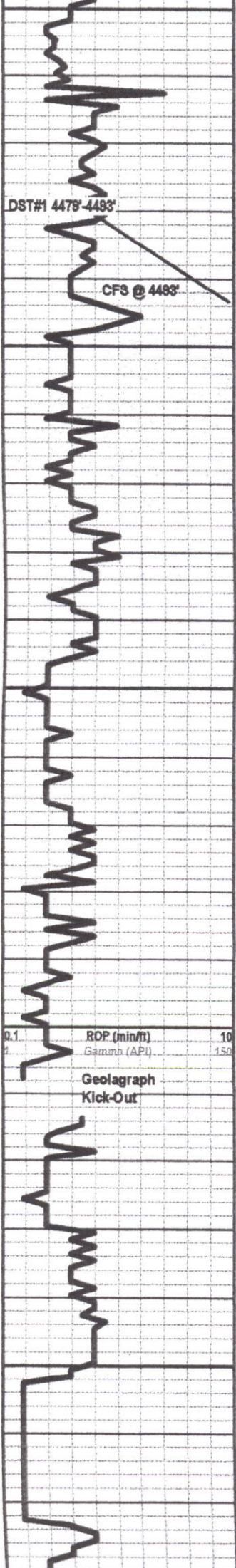
4426'-4434' SH-MED GRY TO EXTREMELY CALC

4434'-4449' LMS-LT GRY, SLI TO FRLY SHLY TO TAN



0.1 DP (min/ft) 10
Gamma (API) 150





4449-4478' LMS- LT TO MED GRY, VERY TO EXTRLY SHLY CRYPTO XLN; SUB-CHLK/DR SHLY & PACKSTN; GRDNG TO EXTRLY CALC SHS; NO FLOUR; NO CUT; NO VIS POR

Lansing 4462' - 1742'

4478'- LMS- TRS WHT TO CRM-CHLK & CRM TO LT TAN W SPTD TO EVEN TAN OIL STN OOLITIC TO PHANTOM OOLICASTIC TRS PHANTOM FOSS TO TRS FOSS; ABU BRT YEL FLUOR W FLUSH TO GD STRMNG CUTS SUB-SUCRO TO SUCRO ABU PR TO HVY TRS FR TO GOOD PP & MICRO-PP POR & POSS INTER-XLN POR IP'S; QUEST PERM

4494'-4523' LMS-TRS WHT TO CRM-CHLK & TAN; GRYSH IP'S V-VFN TO V-VFN-XLN; SUB-SUCRO TO SUCRO; TRS 4494'-4494' LMS- TR TO HVY WHY TO CRM-CHLK & LT GRY TO TAN; CRYPTO TO V-VFN-XLN; SUB-CHLK SUB-SUCRO & PACKSTN & TR SUB-LITHOGR, DUL LT TO LT YEL FLUOR; NO CUT

4523'-4546' LM-TRS WHT TO CRM-CHLK & TAN, GRYSH IP'S CRYPTO TO V-VFN-XLN; SUB-CHLK, SUB-SUCRO & PACKSTN TRS PHANTOM OOLITIC; DUL YEL TO YEL FLUOR; NO CUT; NO VIS POR

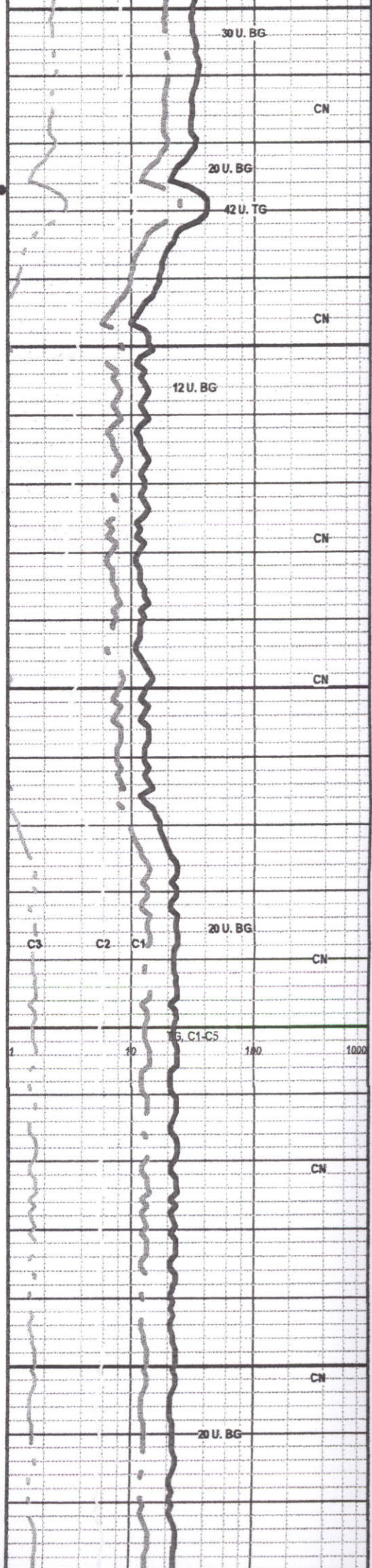
4546'-4567' LMS TRS WHT TO CRM-CHLK & TAN; CRYPTO TO V-VFN-XLN; SUB-CHLK SUB-SUCRO TO TRS SUCRO PHANTOM OOLITIC IP'S TO TRS OOLITIC; DUL LT YEL TO TRS LT YEL FLUOR; NO CUT; TRS PR MICRO-PP POR IP'S

4567'-4590' LMS-SIMILIAR 4546'-4567'

4610'-4652' LMS- GRYSH TAN TO TAN, CRYPTO TO V-VFN-XLN SUB-CHLK, SUB-SUCRO, & PACKSTN; DUL YEL FLUOR; NO CUT; NO VIS POR

4652'-4673' LMS- HVY TRS WHT TO CRM-CHLK & TAN CRYPTO TO V-VFN-XLN; TR SUB-CHLK, SUB-SUCRO TO V-SUCRO & TRS PACKSTN, PHANTOM OOLITIC TO V-OOLITIC & PHANTOM OOLICASTIC IP'S DUL LT TO LT YEL FLUOR; NO CUT, ABU PR, FR TO GD & TRS EXCEL PP, MICRO PP & PROB INTER-XLN POR

4673'-4718' LMS- TRS WHT TO CRM-CHLK & GRYSH TAN



DST#2 4710-4745

CFS @ 4745'

Geolograph
Kick-Out

ROP (min/ft) 10
Gamma (API) 150

See Below

4700

4750

4800

4850

4900

4718' LMS- TAN; V-VFN TO V-FN-XLN V TO EXTRLY OOLICASTIC & OR SLI TO FRLY OOLITIC MATRIX SUB-SUCRO TO VERY SUCRO; POSS LT TAN OIL STN IP'S; GLDN YEL TO YEL FLUOR; SLI MILKY CUT; GD TO EXCEL OOLICASTIC; POR W/ TRS TO HVY TRS MICRO-PP & PROB INTER-XLN POR, QUEST PERM

4725'-4775' LMS SIMILIAR 4675'-4718'

4775'-4783' LMS ABU WHT TO CRM-CHLK & TAN; CRYPTO TO V-VFN-XLN; V-OOLITIC, MATRIX CHLK, SUB-CHLK, SUB-SUCRO TO SUCRO, DUL YEL, DUL LT YEL TO LT YEL FLUOR; NO CUT; NO VIS POR

4783'-4815' LMS- SIMILIAR 4675'-4718' W/POSS SH MED TO DRK GRY- SLI TO V-CALC IP'S

4815'-4824' LMS- EXTR ABU CRM TO WHT CHLK & CRM TO TAN, SUB-CHLK TO TRS PACKSTN; DUL YEL TO LT YEL FLUOR; NO CUT; NO VIS POR

4824'-4843' LMS- LT GRY TO TAN; CRYPTO TO XLN SUB CHLK & PACKSTN; DUL YEL FLUOR; NO CUT; NO VIS POR

4843'-4879' LMS- LT TO MED GRY TANISH IP'S TO TAN CRYPTO TO V-VFN-XLN; SUB-CHLK, SUB-SUCRO, & PACKSTN; DUL LT YEL FLUOR IP'S; NO CUT; NO VIS POR

4879'-4914' LMS- LT TO MED GRY; CRYPTO TO XLN PACKSTN, DUL LT YEL FLUOR IP'S; NO CUT; NO VIS POR

4914'-4940' LMS- MED TO DRK GRY SLI TO EXTRLY SHLY GRDNG TO ETRLY CALC SH'S, SUB-CHLK & OR SHLY &

20 U. BG

45 U. SH GAS

20 U. BG

20 U. BG

10 U. BG

12 U. BG

CN

CN

CN

CN

CN

CN

CN

C3

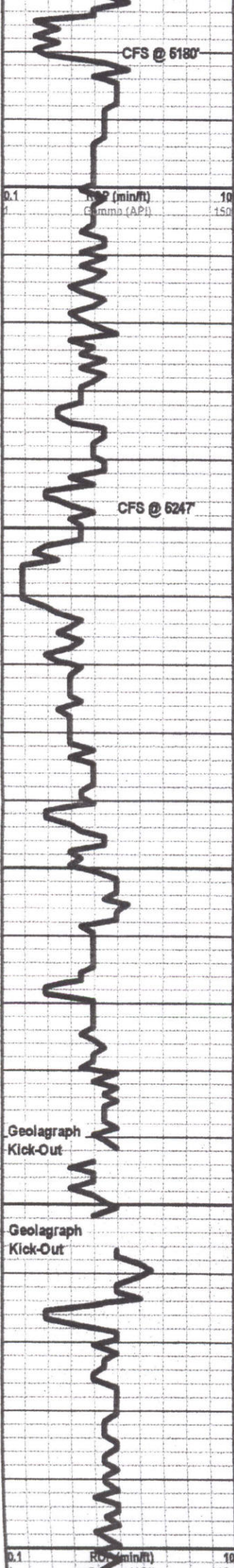
C2

C1

T, C1-C5

C2

C1



5181'-5232' LMS- TRS TO HVY TRS WHT TO CRM-CHLK AND LT GRY TO TAN; CRYPTO TO V-VFN-XLN, SUB-CHLK SUB-SUCRO & PACKSTN PHANTOM OOLITIC TO TRS OOLITIC; DUL YEL TO YEL FLUOR; NO CUT; NO VIS POR

5232'-5235' LMS- LT TAN TO TAN CRYPTO TO V-VFN-XLN, SUB-CHLK, SUB-SUCRO TO TR SUCRO; DUL LT TO LT YEL FLUOR; NO CUT; NO VIS POR (GAS SHOW)

5235'-5252' LMS- SIMILAR 5181'-5232'

5252'-5291' (NOTE MISSED 40 FT. OF SAMPLES FROM 5260'-5300') LMS- ABU WHT TO CRM-CHLK IN PARTS AND LT GRY TO TAN; CRYPTO TO V-VFN-XLN; SUB-CHLK, SUB-SUCRO TO TRS SUCRO & PACKSTN; DUL YEL TO YEL FLUOR; NO CUT; NO VIS POR

5291'-5300' SH- V-DRK GRY V TO EXTRYLY CALC TO BLACK-CARB

5300'-5315' LMS- GRY TO TAN; CRYPTO TO V-VFN-XLN TRS SUB-CHLK, SUB-SUCRO & PACKSTN; DUL YEL FLUOR IP'S; NO CUT; NO VIS POR & TRS W/ GLDN YEL FLUOR W/ FAINT TO FAIR STRMNG TO FAIR RING CUTS; NO VIS POR

5315'-5320' SH- V-DRK GRY TO BLACK-CARB

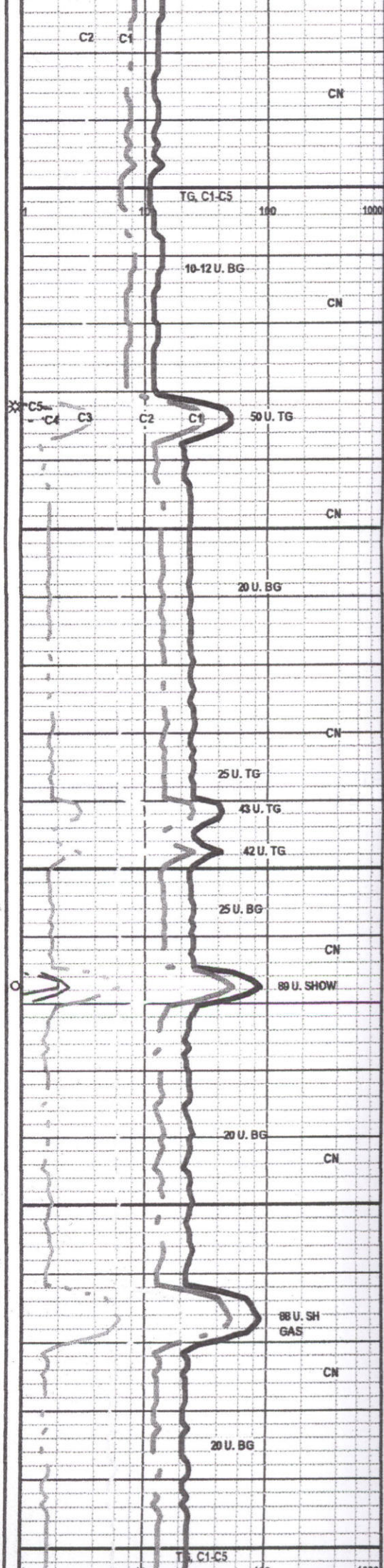
5320'-5339' LMS- SIMILAR 5300'-5315'

5339'-5356' SH- MED GRY; SLI TO VERY CALC

5356'-5364' LMS- TAN, GRYISH IP'S; CRYPTO TO V-VFN-XLN TRS SUB-CHLK, SUB-SUCRO & PACKSTN; DUL YEL FLUOR; NO CUT NO VIS POR

5364'-5368' SH- V-DRK GRY TO BLACK CARB

5368'-5413' LMS- MED TO DRK GRY- V TO EXTRYLY SHLY CRYPTO TO XLN; SUB-CHLK & OR SHLY & PACKSTN W/ HVY TRS GRYISH TAN TO TAN; CRYPTO TO V-VFN-XLN; TRS SUB-CHLK SUB-SUCRO & PACKSTN; DUL YEL FLUOR; NO CUT; NO VIS POR



5420-5428 LMS- SIMILIAR 5368'-5413'

5428' LM- LT TO TAN W/ DRK TAN STN IN 60%, V-VFN TO V-FN-XLN TR MED-XLN SUB-SUCRO TO SUCRO/FOSS FRAGS; DUL GLDN YEL FLUOR IN 30%; NO CUT, FLUSH TO GD STRMNG CUT GD RING CUT, STRNG OIL ODOR, FR MICRO-PP POR IN 40% W/ SHOW

5432-5438' SH- V-DRK GRY TO BLACK-CARB

5442-5634' INTERBEDDED SHALES & LIMESTONES

1. SH- MED TO VDRK GRY- SLI TO V-CALC

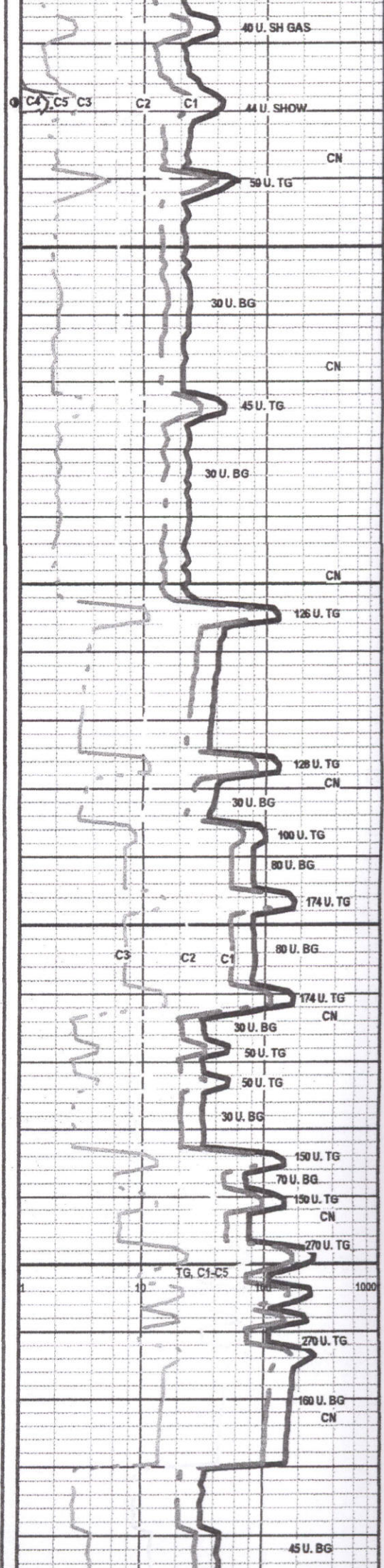
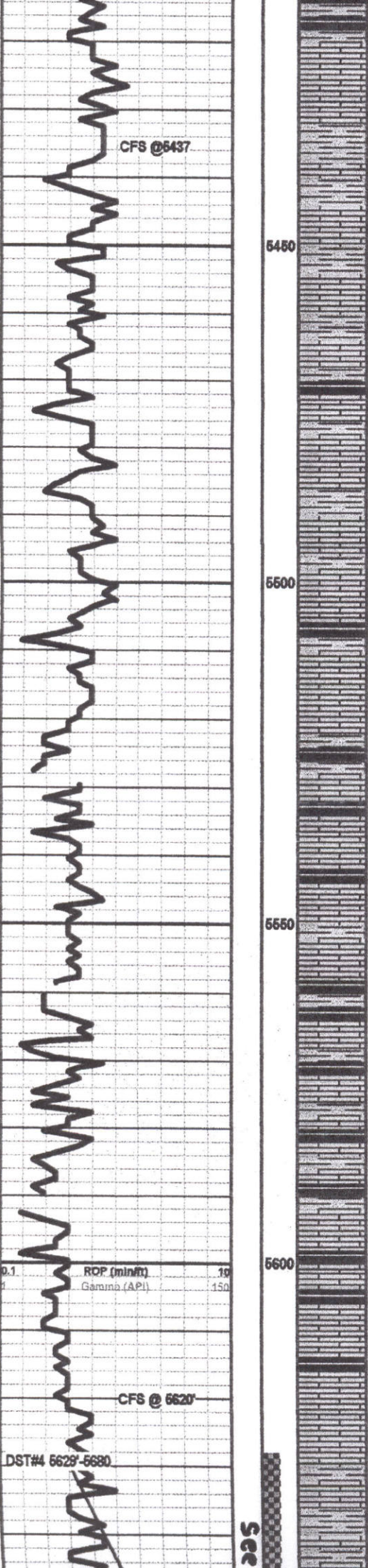
2. SH- V-DRK GRY TO BLACK-CARB

3. LM- MED TO DRK GRY- V TO EXTRLY SHLY GRDNG TO EXTRLY CALC SHS; CRYPTO TO V-VFN-XLN; SUB-CHLK & DR SHLY TRS SUB-SUCRO & PACKSTN; NO FLUOR; NO CUT; NO VIS POR

4. LMS- LT GRY TO TAN; CRYPTO TO V-VFN-XLN, TR SUB-CHLK SUB-SUCRO & PACKSTN W/FR TO HVY TRS SUB-LITHOGRAPHIC TRS FOSS IP'S; DUL YEL TO TRS YEL FLOUR; NO CUT; NO VIS POR

MORROW 5634'-2914'

5634'-5654' LMS- LT MED TO DRK GRY- SLI TO EXTRLY SHLY GRDNG TO CALC SHS; CRYPTO TO TRS SUB-SUCRO & PACKSTN; TRS V DUL YEL FLUOR; NO CUT; NO VIS POR W/ MED TO DRK GRY SHALE



5669'-5676' QZ SDST- LT TAN FROM OIL STN, V-VFN TO V-FN ANG PR TO GD SORT V SLI CALC IP'S; GD OIL ODOR; BRT GLD YEL FLUOR; FLUSH TO GD STRMNG CUTS; W/FR TO GD PP TO INTER-GRN POR

5669'-5676' LM-WMQT SDST- TAN W/ SPOTTED TO EVEN DRK TAN OIL STN IN 30%, V-FN TO CRS GRN (COMPOSED LM GR'S & FOSS FRAGS) W/ TRS TO 10% QT GR V FN TO FN, ANG, MATRIX CHLK, TO SUB-SUCRO PACKSTN, ABN W/ TRS TO ABN GLAUC &/OR CHLORITE, BRT GLDN YEL TO YEL FLUOR, W/ FAIR TO GOOD STRMNG CUT, SCATT PR PP POR IP'S

5676'-5687' LM SDST- SIMILIAR 5669'-5669'

5687'-5704' SH- MED GRY- SOFT W/ SILKY LUSTER TO DRK GRY SOFT SPLINTERY IP'S W/ ABU LM SDST SIMILIAR 5669'-5669' IN SAMPLES

5719'-5726' QZ SDSST- TANISH GRY TO TAN FROM EVEN OIL STN, V-VFN TO TRS V-FN GRN, ANG, PR TO GD SORT ABN CLAY AND SILT FILLING, HVY TR SLI TO V-GLAUC &/OR CHLORITE, GD OIL ODOR, GLDN YEL TO TRS DUL GLD YEL FLUOR; W/ FLUSH TO EXCL STRMNG CUTS; HVY TRS PR TO FR & SLI TRS GD TO EXCEL MICRO-PP TO INTER-GRN POR

5709'-5719' SH- MED TO DRK GRY SLI TO EXTRLY SILTY W/ SILTSTN TAN TO BRN OIL STN; V-VFN, CLAY FILLED SLI TO FRLY GLAUC &/OR CHLORITIC; DUL YEL FLUOR IP'S SLOW FAINT TO GD STRMNG CUTS; NO VIS POR

5726'-5751' SH- MED TO DRK GRY- SILTY IP'S W/ TR TO HVY TRS LM SDSTN SIMILIAR 5669'-5669'

5751'-5788' FRAGM LMS- TRS WHT TO CRM-CHLK & TAN V-FN TO COARSE GR. (COMPOSED LM GR'S, FOSS FRAGM & TRS W/OOLITES) MATRIX CHLK, SUB-CHLK, SUB-SUCRO TO TRAS SUCRO & PACKSTN; ABN SPTD DRK TAN TO BROWN OIL STN; W/ GOLDEN YEL FLUOR; FLUSH (FROM VUGS) & FAIR TO FAINT STRMNG CUTS; SLI TR PR PP & VUGULAR POR

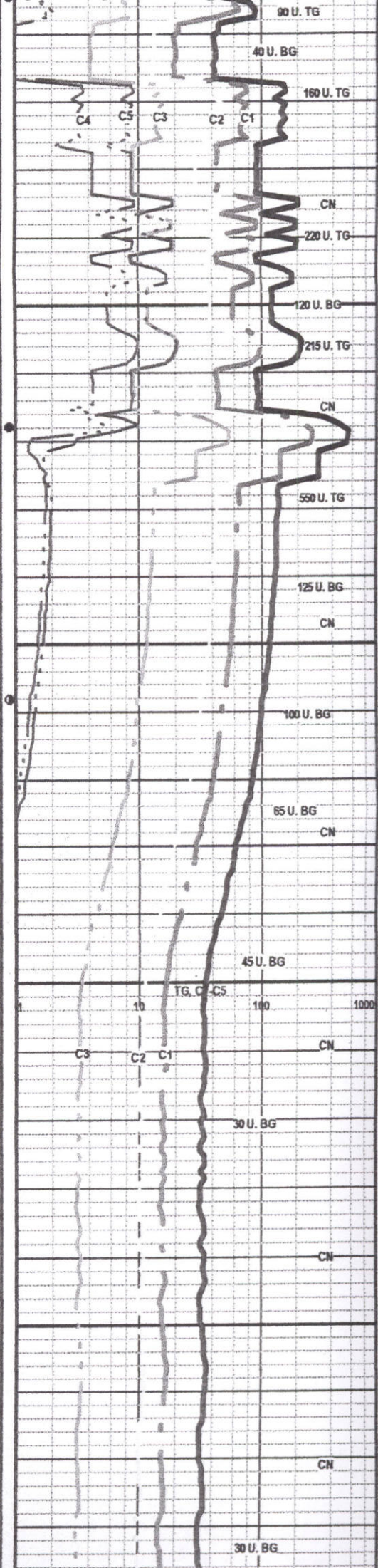
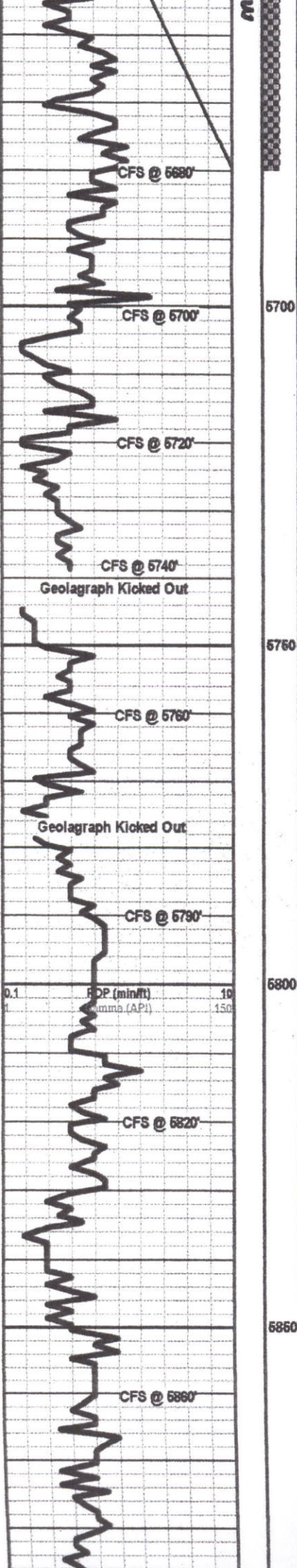
5788'-5830' LMS- LT TO MED GRY- FRLY TO VERY SHLY; CRYPTO XLN; SUB-CHLK &/OR SHLY & PACKSTN, GRDNG TO EXTRLY CALC SHALES; NO FLUOR; NO CUT; NO VIS POR

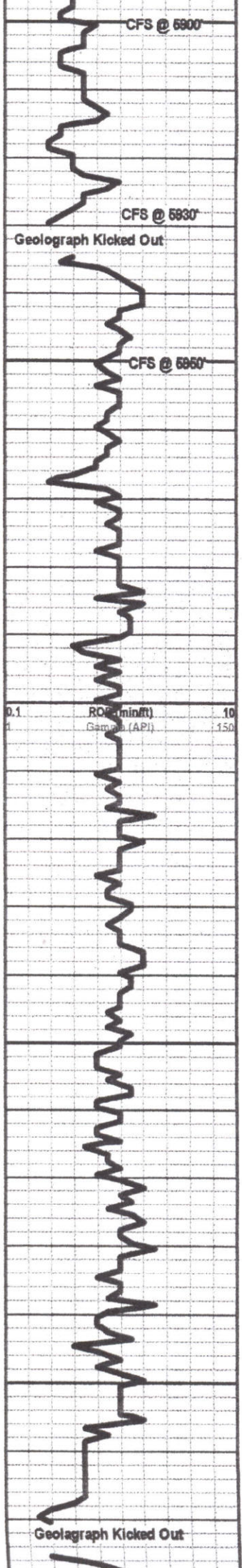
5830'-5871' FRAGM LMS- LT GRY TO TAN, ABU MOTTLED, VFN TO COARSE OR (COMPOSED LM GR'S, FOSS-FRAGS AND OOLITES-GRY & TAN) MATRIX; VERY ABU CHLK TO V-ABU SUB-CHLK, TRS SUB-SUCRO & TRS PACKSTN; DUL LT YEL FLUOR; NO CUT; NO VIS POR

5871'-5889' INTERBEDDED &/OR CONGOMERITIC SHS & LMSTS

1. SH- LT TO MED GRY- GREENISH IP'S TO HVY TRS OLIVE GREEN TO LT GREEN & SLI TRS REDS & MAROONS

2. LMST. LT GRY'S TO TAN'S, GREENISH IP'S TO TRS LT





5900

5950

6000

6050

6100

5889'-5915' VERIGATED SH & LM CONGLOMERAT;
VERIGATED SHS GRYS; REDS & GREENS W/ HWY TRS
LMSTS SIMILIAR 5871'-5887'

5915'-5922' QTZ SDST- TAN TO BRN FROM OIL STN; V-VFN
TO TRS V-FN GR; WUG GD SORT BUT SILT & CLAY FILLED,
SLI TO VERY CALC & DOLOMITIC GOOD OIL ODOR; DUL
GLDN YEL FLUOR W/ FLUSH TO FR TO GD STRMNG CUTS;
SCATTERED POOR MICRO-PP TO POSS INTER-GRN POR
IP'S QUEST PERM

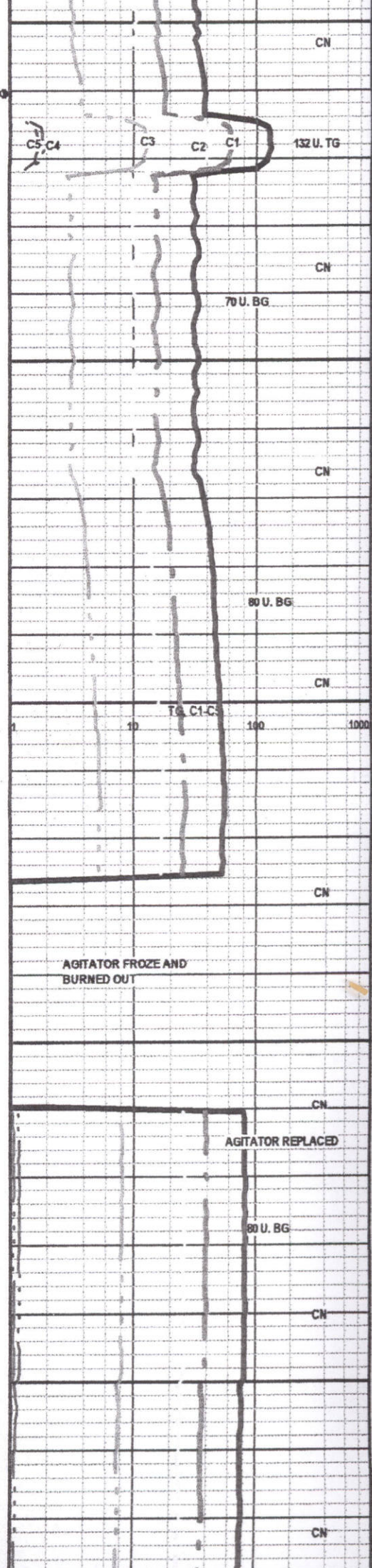
5923'-5937' VERIGATED SHALE & LMST CONGLO SIMILIAR
5889'-5915'

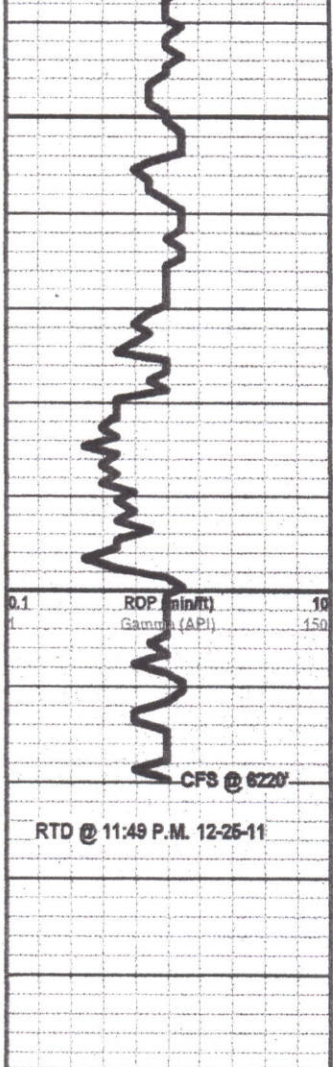
5937'-6045' LMS- LT GRY TO TAN, GREENISH IP'S CRYPTO
TO V-VFN-XLN; EXTRLY MICRO-OLITIC & OR QTZ SDY,
V-VFN-GRDNG W/ SCATTERED TRS W/ SM OOLITES;
MATRIX ABU-CHLK; ABU SUB-CHLK & SUB-SUCRO; DUL
LT YEL FLUOR; NO CUT; NO VIS POR

6045'-6108' LMS CRYPTO TO LT TAN CRYPTO TO
V-VFN-XLN VERY EXTRLY OOLITIC (SM, MED & LG) MATRIX
CHLK; SUB-CHLK; SUB-SUCRO & PACKSTN; DUL YEL
FLUOR; NO CUT; NO VIS POR

6108'-6117' LMS- CRM TO LT TAN; CRYPTO TO V-VFN-XLN
V TO EXTRLY OOLITIC (MED TO LG & TRS SM) MATRIX
TRS CHLK TRS SUB-CHLK, SUB-SUCRO & PACKSTN; LT
YEL FLUOR; NO CUT; NO VIS POR

6117'-6122' LMS- CRM TO LT TAN; CRYPTO TO V-VFN-XLN;
V TO EXTRLY OOLITIC (MED & LG); HWY TRS POSS FRAGM
IP'S MATRIX ABU-CHLK, ABU SUB-CHLK; SUB-SUCRO &





6160

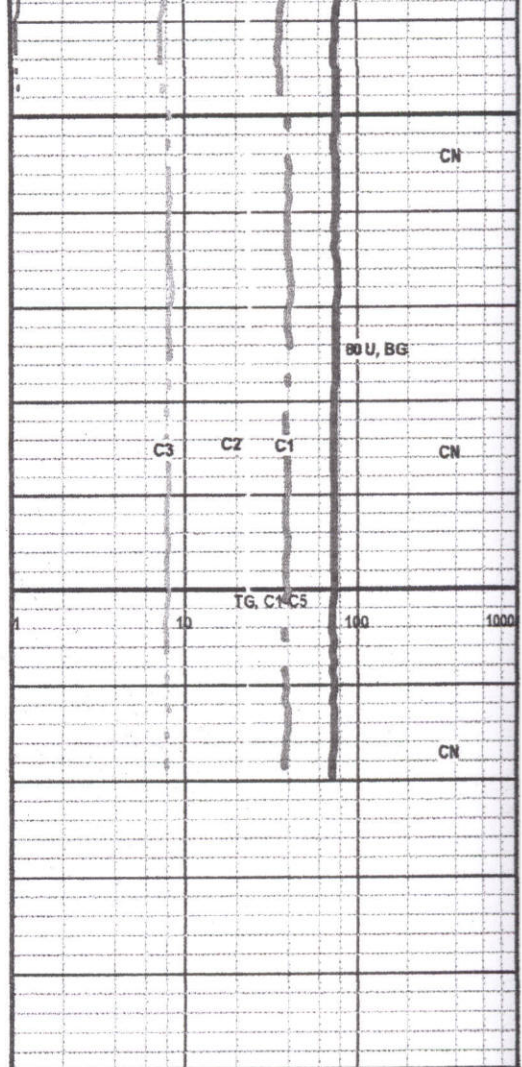
6200

6117'-6189' LMS- CRM TO TAN; CRYPTO TO V-VFN-XLN; V TO EXTRLY OOLITIC (SM,MD & LG) MATRIX TRS CHLK, TRS SUB-CHLK, SUB-SUCRO & PACKSTN; DUL LT YEL FLUOR, NO CUT, NO VIS POR W/ HVY TRS LMS GRYSH TAN TO TAN, CRYPTO XLN, PACKSTN TO SUB-LITHOGR, DUL YEL FLUOR, NO CUT, NO VIS POR W/ TRS TO HVY TRS CHURT GRY TO TAN OPQUE TO TRANSL

6189'-6198' LMS- SLI TRS WHT TO CRM-CHLK & CRM TO LT TAN, CRYPTO TO V-VFN-XLN; VERYTO EXTRLY OOLITIC (MED, LG HVY TRS SM) MATRIX CHLK, SUB-CHLK, SUB-SUCRO, DUL GLDN YEL FLUOR; NO CUT; NO VIS POR, VERY ABU LOOSE OOLITES (MED TO LG & TRS SM); TRS CHURT GRY TO TAN, OPQUE TO TRANSL

6198'-6220' LMS WICHERT SIMILIAR 6117'-6189'

RTD @ 6220'



7 3/8 inch Bit Info:

1. New PDC Hughes DP506 F
in 1689 out 2187
2. New Tricone Button Hughes GX28C
in 2187 out 6220TD

Dev. SURV.

- | | |
|----------------|----------------|
| 1. 1693 1 1/2° | 5. 5132 1 3/4° |
| 2. 2187 3/4° | 6. 5680 3/4° |
| 3. 3347 1° | 7. 6220 TD |
| 4. 4745 1/2° | |

Cir Points:

- | | |
|----------|----------|
| 1. 4493 | 11. 5720 |
| 2. 4745 | 12. 5740 |
| 3. 4982 | 13. 5760 |
| 4. 5130 | 14. 5790 |
| 5. 5180 | 15. 5820 |
| 6. 5247 | 16. 5860 |
| 7. 5620 | 17. 5900 |
| 8. 5650 | 18. 5930 |
| 9. 5680 | 19. 5950 |
| 10. 5700 | 20. 6220 |

Daily Dalg. Progres

- | | | |
|---------|---------|----------|
| 1. 4200 | 7:30 AM | 12-14-11 |
| 2. 4493 | 7:00 AM | 12-15-11 |
| 3. 4584 | 7:00 AM | 12-16-11 |

7.	5132	7:00 AM	12-20-11
8.	5420	7:00 AM	12-21-11
9.	5680	7:00 AM	12-22-11
10.	5680	7:00 AM	12-23-11
11.	5790	7:00 AM	12-24-11
12.	6016	7:00 AM	12-25-11
13.	6220	7:00 AM	12-26-11

DST#1 Lansing 4479-4493
 IO weak surface blow died 15 min
 FO No. Blow
 Rec 10 ft tr. gas; tr. sptd oil 100% Mud
 BHT 108°F
 IHP 2139#
 IFP 18-21# in 30 min
 ISIP 75# in 60 min
 FFP 16-21# in 30 min
 FSIP 87# in 120 min
 FHP 2145#

DST#1 Lansing 4710-4745
 IO Good Building Blow BOB 8 min
 FO Weak Building Blow 8" in bucket 60 min
 Rec 350 ft fluid
 30' tr. gas; 15% O; 75% W; 10% M
 320' tr. gas; 100% W; tr mud
 Rw .115 at 50°F BHT 112°F
 Test chl 115000 ppm
 PITCH 3500 ppm
 Mud Eng. Titrated 170000 ppm
 IHP 2272#

IFP 32-117# in 30 min
 ISIP 1326# in 60 min
 FFP 128-205# in 60 min
 FSIP 1331# in 120 min
 FHP 2246#

DST#3 Marmaton 5118-5132
 IO Strong Blow BOB 3 min
 FO Strong Blow BOB ASD No Gas
 Rec. 3000 feet GIP
 150 ft fluid
 30 ft tr. gas; 100% O; tr. W; TR. M
 120 ft 10% G; 10% O; 40% W; 40% M

Mud Eng. Titrated 100000 ppm Chl
 PITCH 2800 ppm
 BHT 112°F
 IHP 2451
 IFP 15-22 in 30 min
 ISIP 1492 in 60 min
 FFP 13-39 in 60 min
 FSIP 1397 in 120 min
 FHP 2468

DST#4 Morrow 5629-5680
 IO Strong Blow BOB ASD GTS 3 min
 FO Strong Blow BOB GTS ASD
 Rec 650' 10% G; 70% O; 5% W; 15% M
 Not Enough wtr to run chl??

15IP 315# in 60 min
 FFP 229-260# in 60 min
 F3IP 315# in 120 min
 FHP 2663#

Flow Info

IO	min	PSI	Ch	MCFPD
	10	14	1"	816.5
	20	18	1"	931.5
	30	18	1"	931.5
FO	10	14	1"	816.5
	20	16	1"	874.0
	30	16	1"	874.0
	40	16	1"	874.0
	50	16	1"	874.0
	60	16	1"	874.0

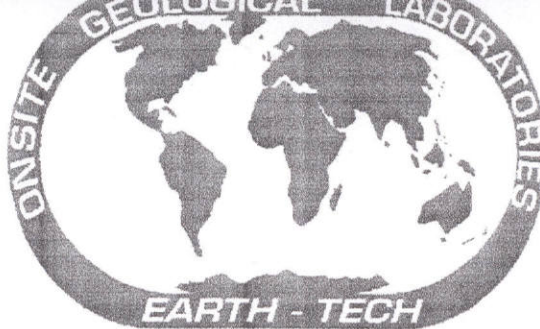
Mud Info:

Date	12-14 9:30A	12-15 9:30A	12-16 9:30A	12-17 9:30A	12-18 9:30A	12-19 9:30A	12-20 9:30A	12-21 9:30A
Depth	4231	4493	4612	4745	4890	4890	S N	5485
WT.	9.2	9.2	9.2	9.2	9.2	9.2	0	9.2
Vis	36	65	60	56	53	50	W	58
PV	8	27	24	24	18	18	D	22
YP	7	12	18	12	14	12	A Y	16
GS	2/5	2/12	2/12	2/12	6/8	6/8	Y	6/10
WL	8.0	4.4	5.0	5.0	6.0	6.0	B	6.0
Cake	1/32	1/32	1/32	1/32	1/32	1/32	L T	1/32
pH	11.0	11.0	11.5	11.0	11.0	11.0	Z	11.0
Chl	3500	3000	3500	3500	2800	2600	A	2800
Ca	40	80	80	40	60	65	R	80
LCM	4	6	6	8	8	6	D	4

Date	12-22 9:30A	12-23 9:30A	12-24 9:30A	12-25 9:30A	12-26 9:30A
Depth	5680	5684	5820	6075	6220
WT.	9.2	9.2	9.2	9.2	9.2
Vis	60	48	52	55	52
PV	20	12	20	20	20
YP	14	10	15	18	14

WL	6.0	1.0	1.0	1.0	6.0			
Gate	1/32	1/32	1/32	1/32	1/32			
pH	11.0	11.0	11.0	10.5	10.5			
chl	2650	2800	2500	2200	2200			
Ca	80	80	120	100	100			
LCM	4	5	5	6	6.			

OPERATOR Raydon Exploration, Inc. LOCATION 2304'FNL + 1650'FEL
 LEASE Pope NO. 1-30 SEC. 30 TWP. 33S RANG. 30W
 ELEVATION 2720KB RTD 6220 COUNTY Meade STATE KANSAS



**Scale 1:240 (5"=100') Imperial
Measured Depth Log**

Well Name: POPE # 1-30
Location: Sec 30 T 33s R30w, Meade county, Kansas
License Number: 14-119-21308
Spud Date: 12/07/2011
Surface Coordinates: 2304' FNL & 1650' FEL

Region: UNKN
Drilling Completed: 12/26/2011

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 2711 **K.B. Elevation (ft):** 2720
Logged Interval (ft): 4200' **To:** 6220 **Total Depth (ft):** 6220
Formation: Lansing & Morrow
Type of Drilling Fluid: Natural Chemical

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Raydon Exploration, Inc.
Address: 1601 NW Expresssways 1300 ste.
Oklahoma City, Ok 73118
Attn. Steve Raybourn

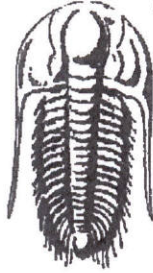
GEOLOGIST

Name: Tim Hedrick & Schuyler Hedrick
Company: Earth Tech OGL, Inc.
Address: P.O. Box 683
Hooker, Ok 73945
Office (888) 543-8378

DSTs

DST#1 4479'-4493' 30 60 30 120
IF-WK SRFC BLO DIED IN 15 MIN/ ISI- NB/ FF- NB/ FSI- NB
IH- 2139, FH- 2145/ IF-18 TO 21, FF- 21 TO 87/ ISI- 75, FSI- 87
RECOVERED 10 FT. 100% MUD, TR OIL, TR GAS/ BHT- 108

DST#2 4710'-4745' 30 60 60 120



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration Inc.**

1601 NW Exressway ste. 1300 Oklahoma
City OK 73118

ATTN: Ed G

Pope # 1-30

30-33s-30w Meade,KS

Start Date: 2011.12.15 @ 11:30:00

End Date: 2011.12.15 @ 21:36:15

Job Ticket #: 42364 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.01.05 @ 10:10:46

Raydon Exploration Inc.

30-33s-30w Meade,KS

Pope # 1-30

DST # 1

2011.12.15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Raydon Exploration Inc.

30-33s-30w Meade,KS

1601 NW Expressway ste. 1300 Oklahoma City
OK 73118

Pope # 1-30

ATTN: Ed G

Job Ticket: 42364

DST#: 1

Test Start: 2011.12.15 @ 11:30:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:18:15

Time Test Ended: 21:36:15

Interval: 4473.00 ft (KB) To 4493.00 ft (KB) (TVD)

Total Depth: 4493.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Harley Davidson

Unit No: 33

Reference Elevations: 2119.00 ft (KB)

2111.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6772

Outside

Press@RunDepth: 21.12 psig @ 4481.00 ft (KB)

Start Date: 2011.12.15

End Date: 2011.12.15

Start Time: 11:30:05

End Time: 21:36:15

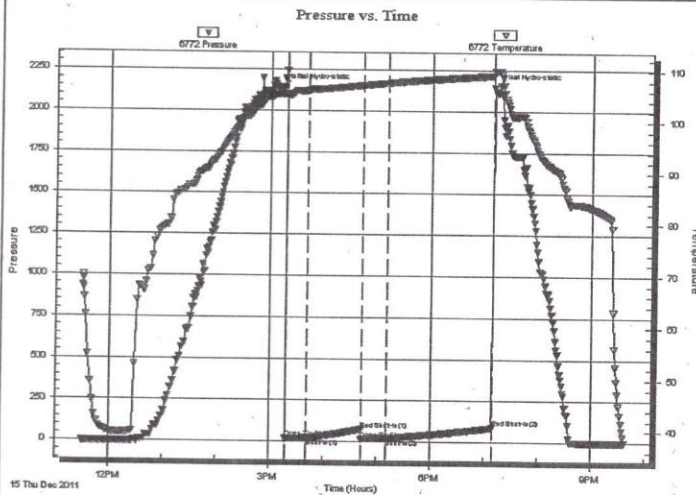
Capacity: 8000.00 psig

Last Calib.: 2011.12.15

Time On Btm: 2011.12.15 @ 15:12:30

Time Off Btm: 2011.12.15 @ 19:10:00

TEST COMMENT: IF- Weak surface blow.
IS- No blow back.
FF- No blow.
FS- No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2138.69	105.29	Initial Hydro-static
6	17.99	105.23	Open To Flow (1)
30	20.57	106.11	Shut-In(1)
90	75.21	107.13	End Shut-In(1)
91	16.31	107.20	Open To Flow (2)
118	21.12	107.58	Shut-In(2)
237	87.44	109.11	End Shut-In(2)
238	2145.13	109.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud w with a trace of gas and spotty oil	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raydon Exploration Inc.

30-33s-30w Meade,KS

1601 NW Exressw ay ste. 1300 Oklahoma City
OK 73118

Pope # 1-30

Job Ticket: 42364

DST#: 1

ATTN: Ed G

Test Start: 2011.12.15 @ 11:30:00

Tool Information

Drill Pipe:	Length: 4257.00 ft	Diameter: 3.80 inches	Volume: 59.71 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 225.00 ft	Diameter: 2.25 inches	Volume: 1.11 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4479.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4452.00	
Shut In Tool	5.00			4457.00	
Hydraulic tool	5.00			4462.00	
Jars	5.00			4467.00	
Safety Joint	3.00			4470.00	
Packer	5.00			4475.00	28.00 Bottom Of Top Packer
Packer	4.00			4479.00	
Stubb	1.00			4480.00	
Perforations	1.00			4481.00	
Recorder	0.00	8355	Inside	4481.00	
Recorder	0.00	6772	Outside	4481.00	
Perforations	9.00			4490.00	
Bullnose	3.00			4493.00	14.00 Bottom Packers & Anchor

Total Tool Length: 42.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raydon Exploration Inc.
1601 NW Expressway ste. 1300 Oklahoma City
OK 73118
ATTN: Ed G

30-33s-30w Meade,KS
Pope # 1-30
Job Ticket: 42364 **DST#: 1**
Test Start: 2011.12.15 @ 11:30:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 65.00 sec/qt
Water Loss: 4.38 in³
Resistivity: ohm.m
Salinity: 3000.00 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
10.00	mud w ith a trace of gas and spotty oil	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:

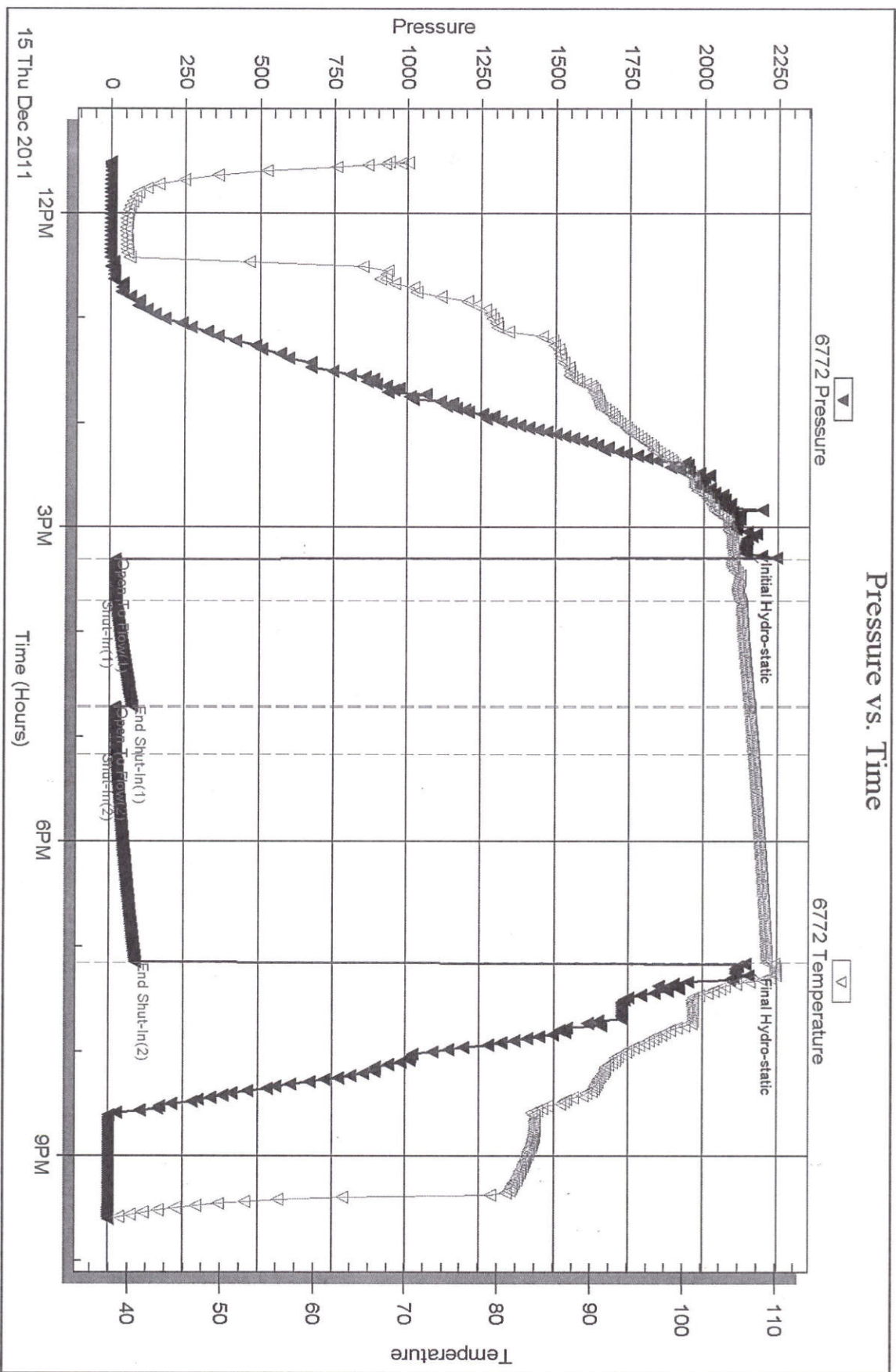
Recovery Comments:

Serial #: 6772

Outside Raydon Exploration Inc.

Pope # 1-30

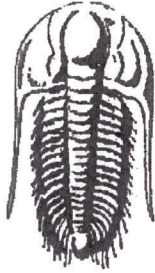
DST Test Number: 1



Trilobe Testing, Inc

Ref. No: 42364

Printed: 2012.01.05 @ 10:10:47



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration Inc.**

1601 NW Exressway ste. 1300 Oklahoma
City OK 73118

ATTN: Ed G

Pope # 1-30

30-33s-30w Meade,KS

Start Date: 2011.12.19 @ 09:30:00

End Date: 2011.12.19 @ 22:18:30

Job Ticket #: 42366 DST #: 3

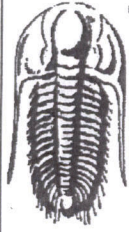
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.01.05 @ 10:11:41

Raydon Exploration Inc. 30-33s-30w Meade,KS Pope # 1-30 DST # 3 Marmaton 2011.12.19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raydon Exploration Inc.

30-33s-30w Meade,KS

1601 NW Exressway ste. 1300 Oklahoma City
OK 73118

Pope # 1-30

Job Ticket: 42366

DST#: 3

ATTN: Ed G

Test Start: 2011.12.19 @ 09:30:00

Tool Information

Drill Pipe:	Length: 4888.00 ft	Diameter: 3.80 inches	Volume: 68.57 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 224.00 ft	Diameter: 2.25 inches	Volume: 1.10 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 69.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	5118.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5091.00	
Shut In Tool	5.00			5096.00	
Hydraulic tool	5.00			5101.00	
Jars	5.00			5106.00	
Safety Joint	3.00			5109.00	
Packer	5.00			5114.00	28.00 BottomOf Top Packer
Packer	4.00			5118.00	
Stubb	1.00			5119.00	
Perforations	1.00			5120.00	
Recorder	0.00	8355	Inside	5120.00	
Recorder	0.00	6772	Outside	5120.00	
Perforations	9.00			5129.00	
Bullnose	3.00			5132.00	14.00 Bottom Packers & Anchor

Total Tool Length: 42.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raydon Exploration Inc.

30-33s-30w Meade,KS

1601 NW Expressway ste. 1300 Oklahoma City
OK 73118

Pope # 1-30

Job Ticket: 42366

DST#: 3

ATTN: Ed G

Test Start: 2011.12.19 @ 09:30:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3000 GIP	0.000
30.00	OIL with a trace of gas water and mud	0.148
120.00	10%gas10%oil40%water40%mud	0.590

Total Length: 150.00 ft

Total Volume: 0.738 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

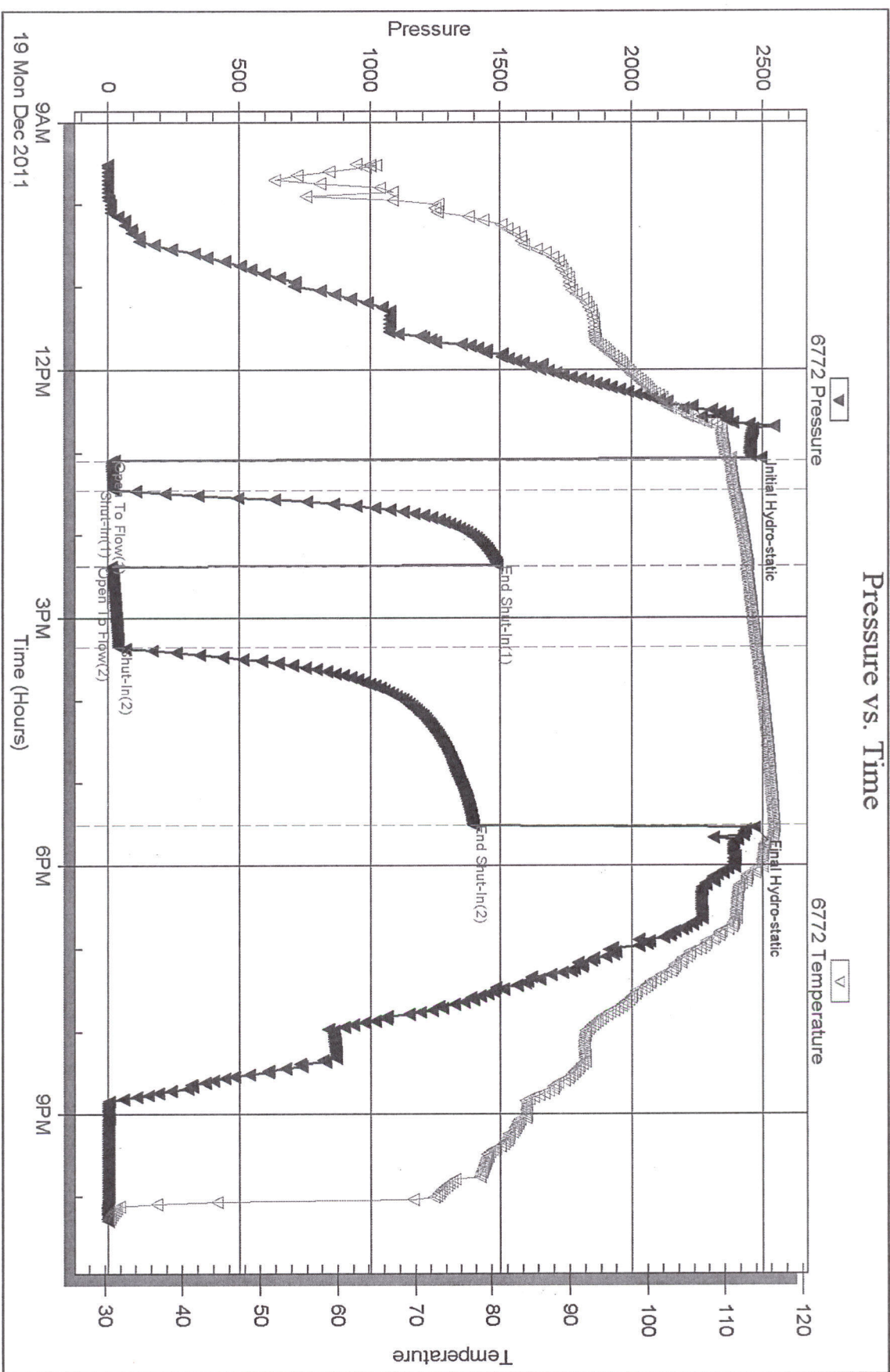
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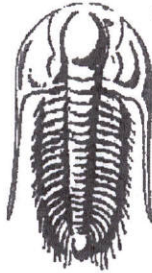
Serial #: 6772

Outside Raydon Exploration Inc.

Pope # 1-30

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration Inc.**

1601 NW Exressway ste. 1300 Oklahoma
City OK 73118

ATTN: Ed G

Pope # 1-30

30-33s-30w Meade,KS

Start Date: 2011.12.22 @ 15:00:00

End Date: 2011.12.23 @ 03:36:30

Job Ticket #: 42367 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.01.05 @ 10:12:01

Raydon Exploration Inc. 30-33s-30w Meade,KS Pope # 1-30 DST # 4 Morrow Sd 2011.12.22



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Raydon Exploration Inc.

30-33s-30w Meade, KS

1601 NW Exressw ay ste. 1300 Oklahoma City
OK 73118

Pope # 1-30

Job Ticket: 42367

DST#: 4

ATTN: Ed G

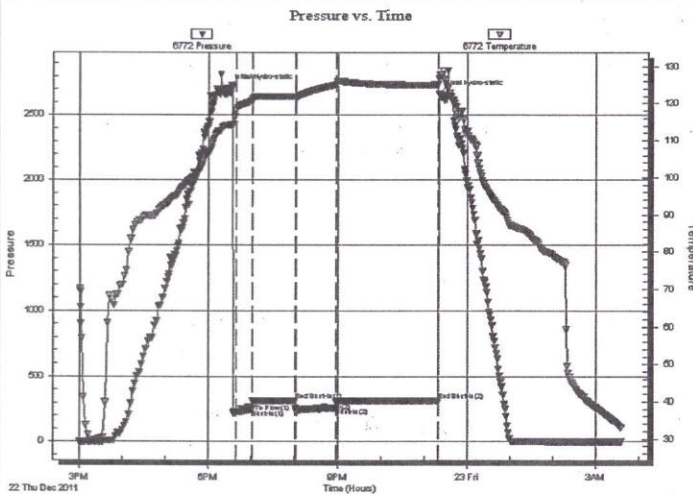
Test Start: 2011.12.22 @ 15:00:00

GENERAL INFORMATION:

Formation: **Morrow Sd**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 18:38:00
 Tester: Harley Davidson
 Time Test Ended: 03:36:30
 Unit No: 33
 Interval: **5629.00 ft (KB) To 5680.00 ft (KB) (TVD)**
 Reference Elevations: 2119.00 ft (KB)
 Total Depth: 5680.00 ft (KB) (TVD)
 2111.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 6772 Outside
 Press@RunDepth: 260.09 psig @ 5632.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.12.22 End Date: 2011.12.23 Last Calib.: 2011.12.23
 Start Time: 15:00:05 End Time: 03:36:30 Time On Btmr: 2011.12.22 @ 18:26:15
 Time Off Btmr: 2011.12.22 @ 23:20:15

TEST COMMENT: IF- Strong blow BOB ASAO, GTS 3 min.
 IS- No blow back.
 FF- Strong blow BOB GTS, ASAO.
 FSI- Weak surface blow.



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2710.66	114.21	Initial Hydro-static
12	221.37	117.90	Open To Flow (1)
35	243.75	120.76	Shut-In(1)
95	314.69	121.91	End Shut-In(1)
97	229.05	121.44	Open To Flow (2)
152	260.09	125.16	Shut-In(2)
293	315.01	125.15	End Shut-In(2)
294	2663.09	126.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
650.00	70%oil 10%gas 15%mud 5%w ater	7.08

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	14.00	816.47
Last Gas Rate	1.00	16.00	873.96
Max. Gas Rate	1.00	18.00	931.46



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raydon Exploration Inc.

30-33s-30w Meade,KS

1601 NW Expressway ste. 1300 Oklahoma City
OK 73118

Pope # 1-30

Job Ticket: 42367

DST#: 4

ATTN: Ed G

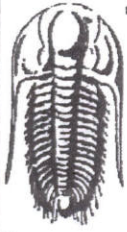
Test Start: 2011.12.22 @ 15:00:00

Tool Information

Drill Pipe:	Length: 5384.00 ft	Diameter: 3.80 inches	Volume: 75.52 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 224.00 ft	Diameter: 2.25 inches	Volume: 1.10 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 76.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	5629.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5603.00	
Shut In Tool	5.00			5608.00	
Hydraulic tool	5.00			5613.00	
Jars	5.00			5618.00	
Safety Joint	2.00			5620.00	
Packer	5.00			5625.00	27.00 Bottom Of Top Packer
Packer	4.00			5629.00	
Stubb	1.00			5630.00	
Perforations	2.00			5632.00	
Recorder	0.00	8355	Inside	5632.00	
Recorder	0.00	6772	Outside	5632.00	
Change Over Sub	1.00			5633.00	
Drill Pipe	31.00			5664.00	
Change Over Sub	1.00			5665.00	
Perforations	12.00			5677.00	
Bullnose	3.00			5680.00	51.00 Bottom Packers & Anchor
Total Tool Length:	78.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raydon Exploration Inc.

30-33s-30w Meade,KS

1601 NW Exressw ay ste. 1300 Oklahoma City
OK 73118

Pope # 1-30

Job Ticket: 42367

DST#: 4

ATTN: Ed G

Test Start: 2011.12.22 @ 15:00:00

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: 6.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2650.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
650.00	70%oil 10%gas 15%mud 5%w ater	7.077

Total Length: 650.00 ft

Total Volume: 7.077 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Raydon Exploration Inc.

30-33s-30w Meade,KS

1601 NW Expressway ste. 1300 Oklahoma City
OK 73118

Pope # 1-30

Job Ticket: 42367

DST#: 4

ATTN: Ed G

Test Start: 2011.12.22 @ 15:00:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

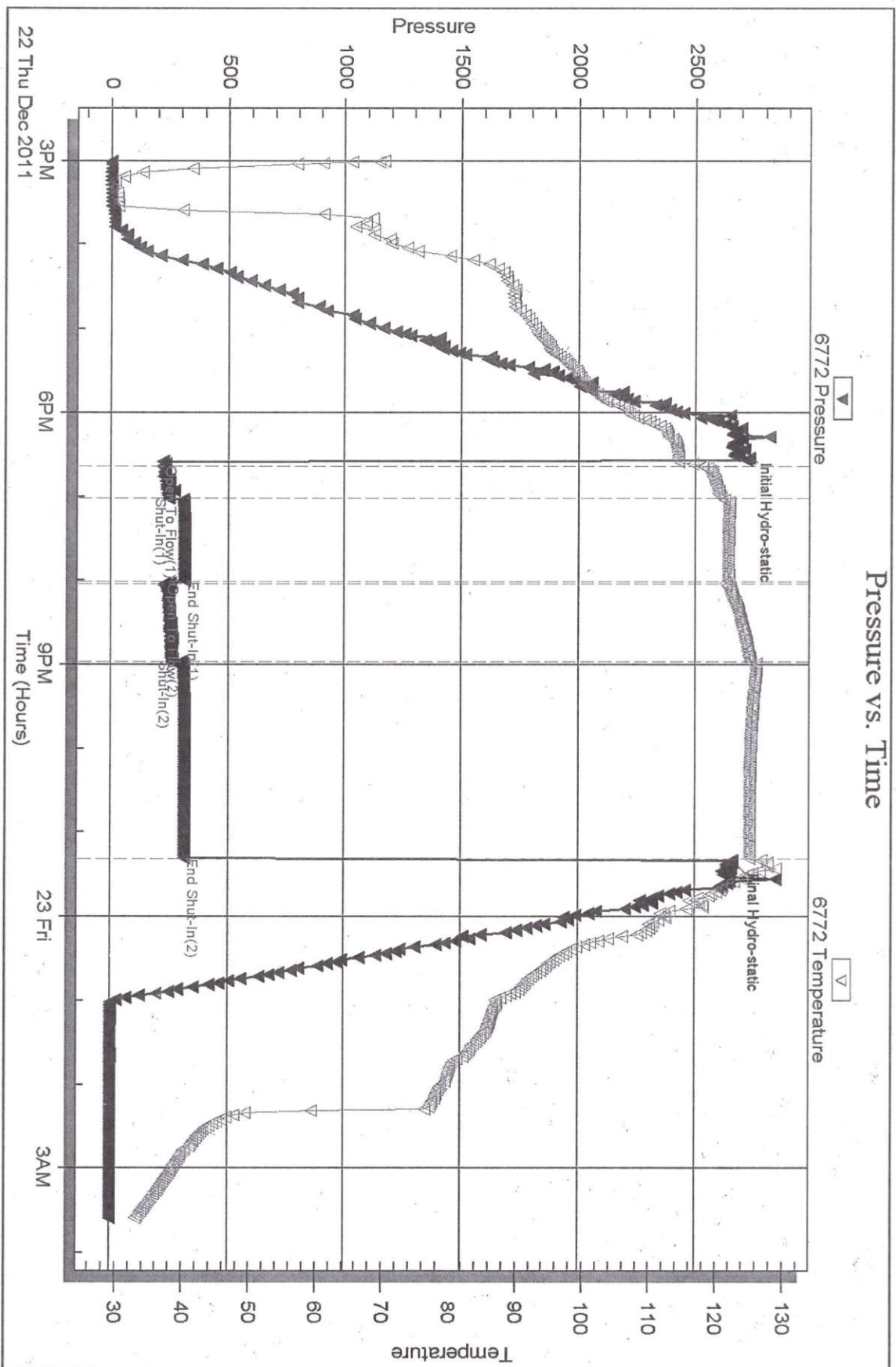
Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	1.00	14.00	816.47
1	10	1.00	14.00	816.47
1	10	1.00	14.00	816.47
1	20	1.00	18.00	931.46
1	30	1.00	18.00	931.46
2	10	1.00	14.00	816.47
2	20	1.00	16.00	873.96
2	30	1.00	16.00	873.96

Serial #: 6772

Outside Raydon Exploration Inc.

Pope # 1-30

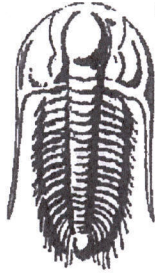
DST Test Number: 4



Triobite Testing, Inc

Ref. No: 42367

Printed: 2012.01.05 @ 10:12:03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Raydon Exploration Inc.**

1601 NW Exressway ste. 1300 Oklahoma
City OK 73118

ATTN: Ed G

Pope # 1-30

30-33s-30w Meade,KS

Start Date: 2011.12.17 @ 00:00:01

End Date: 2011.12.17 @ 10:21:31

Job Ticket #: 42365 DST #: 2

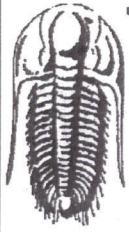
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.01.05 @ 10:11:19

Raydon Exploration Inc. 30-33s-30w Meade,KS Pope # 1-30 DST # 2 Lansing 2011.12.17



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Raydon Exploration Inc.
1601 NW Expressway ste. 1300 Oklahoma City
OK 73118
ATTN: Ed G

30-33s-30w Meade, KS
Pope # 1-30
Job Ticket: 42365 **DST#: 2**
Test Start: 2011.12.17 @ 00:00:01

GENERAL INFORMATION:

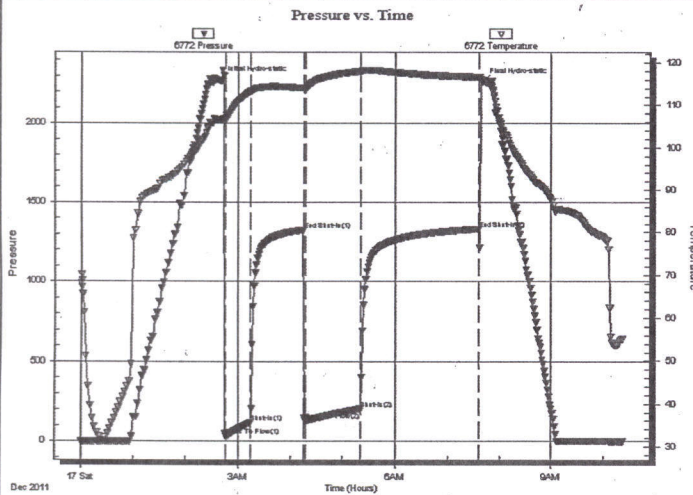
Formation: **Lansing**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:45:31
Time Test Ended: 10:21:31
Interval: **4710.00 ft (KB) To 4745.00 ft (KB) (TVD)**
Total Depth: 4745.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Harley Davidson
Unit No: 58
Reference Elevations: 2119.00 ft (KB)
2111.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6772

Outside

Press@RunDepth: 205.06 psig @ 4712.00 ft (KB)
Start Date: 2011.12.17 End Date: 2011.12.17
Start Time: 00:00:06 End Time: 10:21:31
Capacity: 8000.00 psig
Last Calib.: 2011.12.17
Time On Btm: 2011.12.17 @ 02:40:01
Time Off Btm: 2011.12.17 @ 07:41:16

TEST COMMENT: IF- Good building blow, BOB 8 min.
IS- No blow back.
FF- Weak building blow, 8" into bucket.
FS- No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2272.33	106.62	Initial Hydro-static
6	31.95	107.03	Open To Flow (1)
35	116.93	113.24	Shut-In(1)
95	1326.09	114.10	End Shut-In(1)
98	127.94	113.82	Open To Flow (2)
160	205.06	117.99	Shut-In(2)
297	1331.43	116.64	End Shut-In(2)
302	2263.82	115.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	10% mud 15% oil 75% water	0.15
320.00	trace of oil and gas 100% water	2.72

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raydon Exploration Inc.

30-33s-30w Meade,KS

1601 NW Expressway ste. 1300 Oklahoma City
OK 73118

Pope # 1-30

Job Ticket: 42365

DST#: 2

ATTN: Ed G

Test Start: 2011.12.17 @ 00:00:01

Tool Information

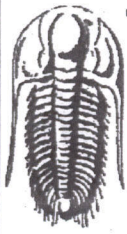
Drill Pipe:	Length: 4473.00 ft	Diameter: 3.80 inches	Volume: 62.74 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 224.00 ft	Diameter: 2.25 inches	Volume: 1.10 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 63.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4710.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4683.00	
Shut In Tool	5.00			4688.00	
Hydraulic tool	5.00			4693.00	
Jars	5.00			4698.00	
Safety Joint	3.00			4701.00	
Packer	5.00			4706.00	28.00 Bottom Of Top Packer
Packer	4.00			4710.00	
Stubb	1.00			4711.00	
Perforations	1.00			4712.00	
Recorder	0.00	8355	Inside	4712.00	
Recorder	0.00	6772	Outside	4712.00	
Perforations	30.00			4742.00	
Bullnose	3.00			4745.00	35.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raydon Exploration Inc.

30-33s-30w Meade,KS

1601 NW Expressway ste. 1300 Oklahoma City
OK 73118

Pope # 1-30

Job Ticket: 42365

DST#: 2

ATTN: Ed G

Test Start: 2011.12.17 @ 00:00:01

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 4.98 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 3500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	10% mud 15% oil 75% water	0.148
320.00	trace of oil and gas 100% water	2.722

Total Length: 350.00 ft Total Volume: 2.870 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.115@50=115000

Serial #: 6772

Outside Raydon Exploration Inc.

Pope # 1-30

DST Test Number: 2

Pressure vs. Time

