Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1229327

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33856
Name: White Exploration, Inc.
Address 1: 1635 N. WATERFRONT PKWY
Address 2: SUITE 100
City: WICHITA State: KS Zip: 67206 + 3966
Contact Person: Kenneth S. White
Phone: (316) 682-6300
CONTRACTOR: License # 5123
Name: Pickrell Drilling Company, Inc.
Wellsite Geologist: Andrew White
Purchaser: MV Purchasing LLC

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
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

10/08/2014	10/14/2014	11/18/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-007-24238-00-00
Spot Description:
_ SE _ NW _ NW Sec. 1 Twp. 31 S. R. 12 ☐ East ☑ West
990 Feet from ☑ North / ☐ South Line of Section
990 Feet from ☐ East / ☑ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Barber
Lease Name: Chain Ranch "B" Well #: 3
Field Name: Amber Creek
Producing Formation: Mississippi
Elevation: Ground: 1638 Kelly Bushing: 1648
Total Vertical Depth: 4480 Plug Back Total Depth: 4462
Amount of Surface Pipe Set and Cemented at: 308 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: 39000 ppm Fluid volume: 1800 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Woolsey Operating Co.
Lease Name: Clarke License #: 33168
Quarter SW Sec. 8 Twp. 32 S. R. 12 ☐ East ☑ West
County: Barber Permit #: D28492

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

☑ **Confidentiality Requested**
Date: 12/01/2014
☑ **Confidential Release Date:** 12/01/2016
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 12/01/2014

[redacted] 1229327

Operator Name: White Exploration, Inc. Lease Name: Chain Ranch "B" Well #: 3

Sec. 1 Twp. 31 S. R. 12 ☐ East ☑ West County: Barber

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Heebner	3544	-1896
Brown Lime	3753	-2105
Stark Shale	4098	-2450
Mississippi	4290	-2642
Kinderhook	4378	-2730

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	308	Class A	200	2% gel, 3% CC
Production	12.25	5.5	15.5	4482	ASC Cement	195	5.5# gypseal, 2% gel, 5# gilsonite/sack, .

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	-			
	-			

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 *(Amount and Kind of Material Used)*	Depth
2	4294 - 4312		
1	4314, 4316, 4318, 4320, 4322,		
	4324 and 4326		

TUBING RECORD: Size: 2.875 Set At: 4380 Packer At: Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 11/18/2014

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	40	60	130		

DISPOSITION OF GAS:
☐ Vented ☑ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
4294 - 4326

Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	Chain Ranch "B" 3
Doc ID	1229327

All Electric Logs Run

Compensated Density/Neutron
Dual Induction
Micro Log
Sonic Log

Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	Chain Ranch "B" 3
Doc ID	1229327

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	308	Class A	200	2% gel, 3% CC
Production	12.25	5.5	15.5	4482	ASC Cement	195	5.5# gypseal, 2% gel, 5# gilsonite/sack, .3% FL-160 and .14% Defoamer

CELLS WITH BLUE BACKGROUND ARE THE ONLY CELLS TO BE EDITED*

Fracture Start Date/Time:	11/4/14 9:36
Fracture End Date/Time:	11/4/14 11:37
State:	Kansas
County:	Barber
API Number:	15-007-24238-0000 *(e.g. XX-XXX-XXXXX-0000)*
Operator Name:	White Exploration Inc
Well Name:	Chain Ranch B #3
Federal Well:	
Longitude:	-98.5823385
Latitude:	37.3814285
Long/Lat Projection:	NAD27
True Vertical Depth (TVD):	0'
Total Clean Fluid Volume* (gal):	382,074

Additive	*Specific Gravity*	*Additive Quantity*	*Mass (lbs)*	
Water	1.00	382,074	*3,188,408*	*gal*
Sand (Proppant)	2.65	227,300	*227,300*	*lb*
Plexcide B7	1.33	20	*222*	*gal*
Plexcide B7	1.33	20	*222*	*gal*
Plexgel Breaker XPA	1.03	66	*567*	*gal*
Plexset 730	0.90	72	*541*	*gal*
Plexset 730	0.90	72	*541*	*gal*
Plexsurf 580 ME	0.95	93	*737*	*gal*
Plexsurf 580 ME	0.95	93	*737*	*gal*
Plexslick 957	1.11	283	*2,621*	*gal*
Claymax	1.09	185	*1,683*	*gal*
Plexgel 907L-EB	1.04	195	*1,692*	*gal*
Plexgel 907L-EB	1.04	195	*1,692*	*gal*
Plexgel 907L-EB	1.04	195	*1,692*	*gal*
Plexgel 907L-EB	1.04	195	*1,692*	*gal*
Plexgel 907L-EB	1.04	195	*1,692*	*gal*
Plexgel Breaker 10L	1.10	3	*28*	*gal*
				gal
				gal
			Total Slurry Mass (Lbs)	
			3,432,068	

Ingredients Section:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Operator	Carrier/Base Fluid	Water	7732-18-5	100.00%	*3,188,408*	*92.90047%*	
Sand (Proppant)	Uniman	Proppant	Crystalline Silica in the form of Quartz	14808-60-7 / 238-878-4	99.90%	*227,073*	*6.61621%*	
Plexcide B7	Chemplex	Biocide	Sodium Hydroxide	1310-73-2	4.99%	*11*	*0.00032%*	
Plexcide B7	Chemplex	Biocide	Alkaline Bromide Salts (non-hazardous)	NA	0.00%	*0*	*0.00000%*	
Plexgel Breaker XPA	Chemplex	Slickwater Breaker	Hydrogen Peroxide	7722-84-1	7.00%	*40*	*0.00116%*	
Plexset 730	Chemplex	Activator	Methanol	67-56-1	50.00%	*270*	*0.00788%*	
Plexset 730	Chemplex	Activator	Alcohol Ethoxylates	Mixture	60.00%	*324*	*0.00945%*	
Plexsurf 580 ME	Chemplex	Product Stabilizer	Methyl Alcohol	67-56-1	10.00%	*74*	*0.00215%*	
Plexsurf 580 ME	Chemplex	Product Stabilizer	2-Butoxyethanol	111-76-2	50.00%	*369*	*0.01074%*	
Plexslick 957	Chemplex	Friction Reducer	Petroleum Hydrotreated Light Distillate	64742-47-8	25.00%	*655*	*0.01910%*	
Claymax	Chemplex	Clay Stabilizer	No Hazardous Ingredient	NA	0.00%	*0*	*0.00000%*	
Plexgel 907L-EB	Chemplex	Gelling Agent	Distillates, Hydrotreated Light	64742-47-8	50.00%	*846*	*0.02466%*	
Plexgel 907L-EB	Chemplex	Gelling Agent	Organophylic Clay	NDA	2.00%	*34*	*0.00099%*	
Plexgel 907L-EB	Chemplex	Gelling Agent	Crystalline Silica	14808-60-7	0.06%	*1*	*0.00003%*	
Plexgel 907L-EB	Chemplex	Gelling Agent	Alcohol Ethoxylates	34398-01-1	1.00%	*17*	*0.00049%*	
Plexgel 907L-EB	Chemplex	Gelling Agent	Guar Gum	9000-30-0	50.00%	*846*	*0.02466%*	
Plexgel Breaker 10L	Chemplex	Breaker/Gel	No Hazardous Ingredient	NA	0.00%	*0*	*0.00000%*	
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component
								Non-MSDS Component

*Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

WHITE
EXPLORATION, INC

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

Well Name:	Chain Ranch "B" #3		
Location:	1-31S-12W		
License Number:	API: 15-007-24238	**Region:**	Barber Co., KS
Spud Date:	10/08/14	**Drilling Completed:**	10/15/14
Surface Coordinates:	990' FNL, 990' FWL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	1638	**K.B. Elevation (ft):**	1648
Logged Interval (ft):	3000 To: 4480	**Total Depth (ft):**	4480
Formation:	Kinderhook		
Type of Drilling Fluid:	Chemical		

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: White Exploration, Inc.
Address: 1635 N. Waterfront Suite 100
Wichita, KS 67206

GEOLOGIST

Name: Andrew White
Company: White Exploration, Inc.
Address: 1635 N. Waterfront Suite 100
Wichita, KS 67206

Remarks

Due to shows of oil and gas observed in the Mississippian section, positive structural position, and electric log analysis, it was decided to further test the Chain Ranch 'B' #3 through production casing.

General Info

Drilling Contractor: Pickrell Rig 1

Logs: Pioneer
Compensated Density/Neutron, Dual Induction, Micro, Sonic

Drilling Mud: Mudco/Service Mud, Inc.

Surveys: 310'-1; 814'-1; 1319'-1; 2361'-1; 4480'-1.75

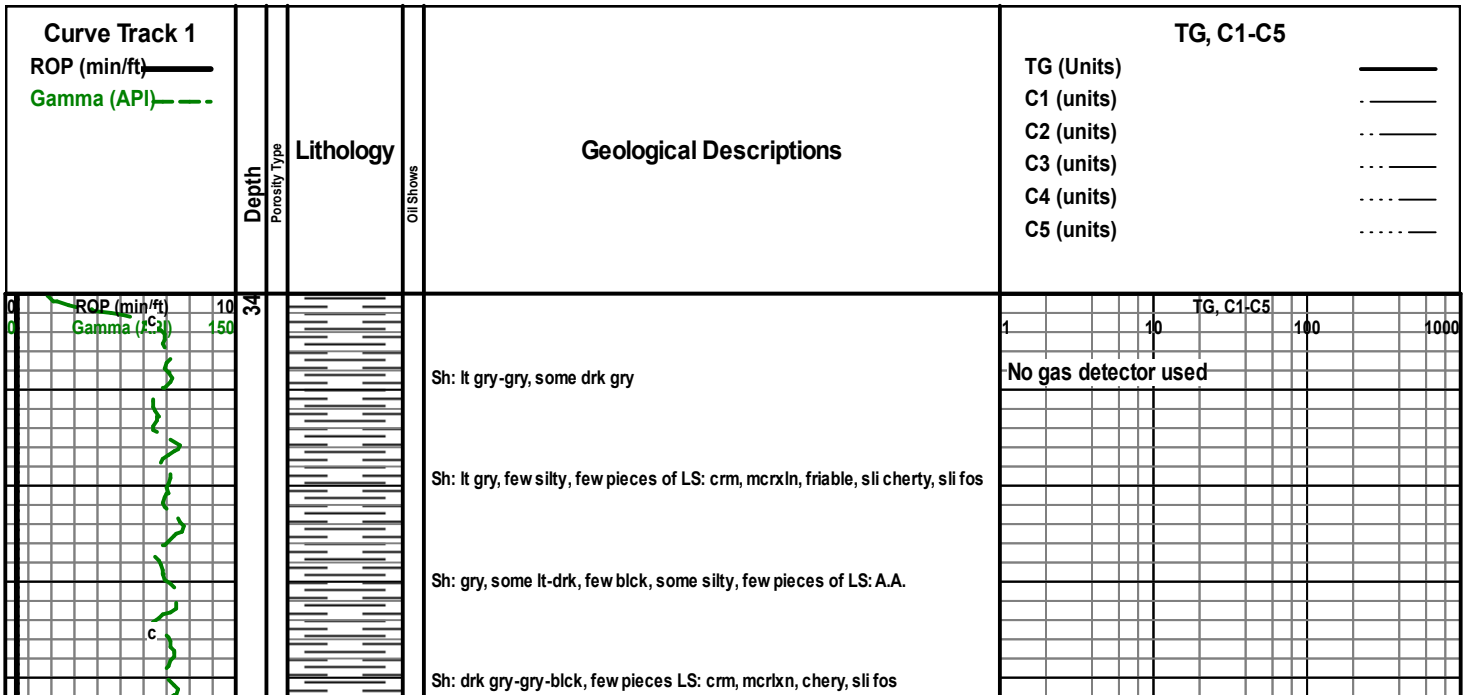
Daily Status

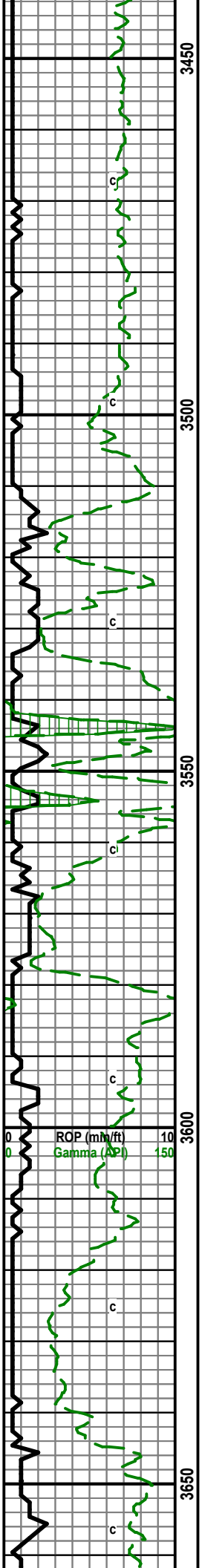
10-08-14: MIRT, spud @ 10 pm, drilled 12-1/4" Surface to 310', ran 7 joints 8-5/8" 24# surface casing and cemented with 200 sacks Class A Cement with 2% gel and 3% CC, set at 308'
10-09-14: Waiting on cement, start drilling at 6:30 pm
10-10-14: Drilling @ 1034'
10-11-14: Drilling @ 1960', made Bit Trip @ 2646'
10-12-14: Drilling @ 2647'
10-13-14: Drilling @ 3764'
10-14-14: Drilling @ 4320'
10-15-14: Laying down pipe to run production casing, ran 107 joints new 5-12" S-55 15.5# Production Casing, set @ 4482', pumped 145 sacks ASC cement with 5.5# gypseal/sack, 2% gel, 5# gilsonite/sack, .3% GL-160 and .14# Defoamer/sack, fill Rat hole with 30 sacks and Mouse hole with 20 sacks 60/40 Poz Mix with 4% gel.

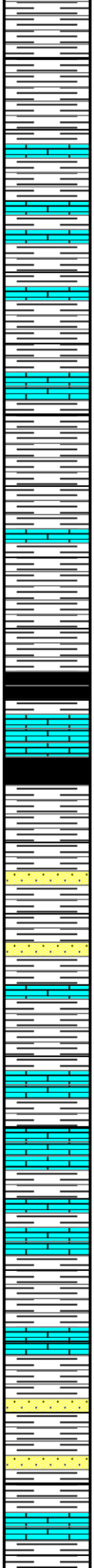
	White Exploration, Inc. Chain Ranch B #3 Sec 1-31S-12W 990' FNL, 990' FWL KB: 1648			White Exploration, Inc. Chain Ranch B #1 Sec 1-31S-12W 475' FNL, 1916' FWL KB: 1655	White Exploration, Inc. Chain Ranch B #2 Sec 1-31S-12W 330' FNL, 330' FWL KB: 1630
	Sample	Log	Datum	Relationship	Relationship
Heebner	3548	3550	-1902	+3	-4
Brown Lime	3753	3753	-2105	+5	-5
Stark	4096	4100	-2452	+7	-9
Mississippian	4270	4290	-2642	+15	-14
Kinderhook	4376	4380	-2732	0	-8

ROCK TYPES

LITHOLOGY
Anhy, Bent, Brec, Cht, Clyst, Black shale, Congl
Dol, Gyp, Igne, Lmst, Meta, Mrlst, Salt, Shale
Shcol, Shgy, Sltst, Ss, Till
STRINGER Anhy
Arg, Bent, Coal, Dol, Gyp, Ls, Mrst, Sltstrg
Ssstrg
OIL SHOW Even, Spotted, Ques, Dead







Sh: gry, some red/orange-lt gry, some LS: A.A. with tan

Sh: gry-lt gry, some silty, LS: crm, mcrlxln, cherty sli fos, sli chalky

Sh: and LS: A.A.

Sh: lt gry-gry, silty, LS: crm, mcrxln, cherty

Sh: lt gry, some blck, LS: A.A.

Sh: A.A. with few pieces LS: crm, mcrxln, cherty

Sh: lt gry, silty, some blck-grn-red/orange, few SS cluster: clear vfgrn, sub round

Sh: lt gry, some gry-red/orange-grn, some LS: crm-tan, mcrxln, sli cherty

Sh: lt gry, few SS: sli silty, opaque vfgn

Sh: gry, some blck, LS: crm-tan, mcrxln

Sh: drk gry-blck, some gry, SS: clear-gry, silty, sub round, sli odor (show gas in cup)

Heebner: 3548 (-1900)

Sh: A.A. with SS: gry-opaque, silty, sub round, sli odor (show gas in cup)

Sh: gry, some lt gry, few pieces SS: A.A.

Sh: gry-lt gry, silty, LS: crm-tan, mcrxln, some fxln, fos, sli cherty, same SS (encontered in next 5 samples, cavings?)

Sh: gry-lt gry, some LS: A.A.

Sh: lt gry-gry, with LS: crm, some tan, mcrxln, few pieces fxln, sli fos

TG, C1-C5
1
10
100
1000

Sh: lt gry-gry, with LS: crm, some tan, mcrxln, sli fos, sli cherty

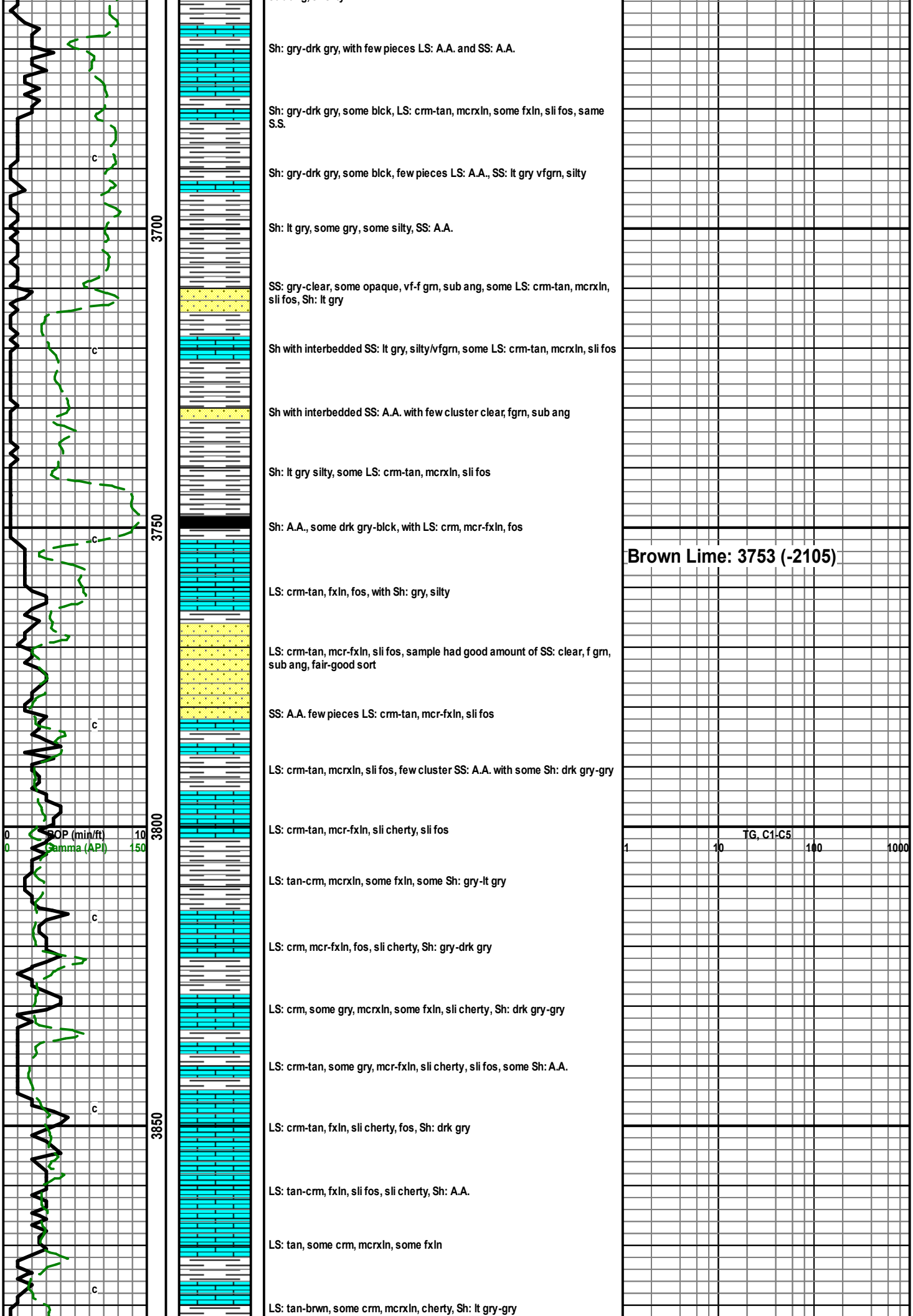
Sh: lt gry-gry, LS: A.A.

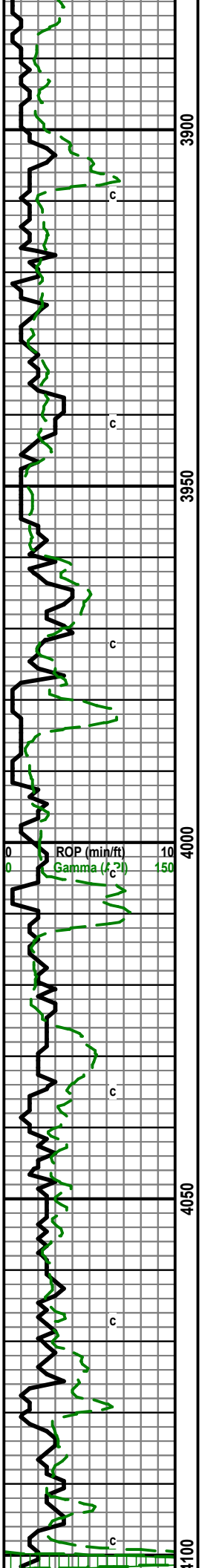
Sh: lt gry-gry, some grn, with few pieces LS: crm, mcrxln, sli fos

Sh: lt gry-gry, some drk gry, SS: clear, vf grn-grn, sub ang,

Sh: A.A. wiht SS: lt gry-clear, vfgrn, sli silty,

Sh: gry-drk gry, some blck, some LS: crm, mcrxln, SS: gry-clear, vf-f grn, sub ang, sli silty


3700
3750
3800
3850
0
SOP (min/ft)
10
0
Gamma (API)
150
TG, C1-C5
1
10
100
1000
Sh: gry-drk gry, with few pieces LS: A.A. and SS: A.A.
Sh: gry-drk gry, some blck, LS: crm-tan, mcrxln, some fxln, sli fos, same S.S.
Sh: gry-drk gry, some blck, few pieces LS: A.A., SS: lt gry vfgrn, silty
Sh: lt gry, some gry, some silty, SS: A.A.
SS: gry-clear, some opaque, vf-f grn, sub ang, some LS: crm-tan, mcrxln, sli fos, Sh: lt gry
Sh with interbedded SS: lt gry, silty/vfgrn, some LS: crm-tan, mcrxln, sli fos
Sh with interbedded SS: A.A. with few cluster clear, fgrn, sub ang
Sh: lt gry silty, some LS: crm-tan, mcrxln, sli fos
Sh: A.A., some drk gry-blck, with LS: crm, mcr-fxln, fos
Brown Lime: 3753 (-2105)
LS: crm-tan, fxln, fos, with Sh: gry, silty
LS: crm-tan, mcr-fxln, sli fos, sample had good amount of SS: clear, f grn, sub ang, fair-good sort
SS: A.A. few pieces LS: crm-tan, mcr-fxln, sli fos
LS: crm-tan, mcrxln, sli fos, few cluster SS: A.A. with some Sh: drk gry-gry
LS: crm-tan, mcr-fxln, sli cherty, sli fos
LS: tan-crm, mcrxln, some fxln, some Sh: gry-lt gry
LS: crm, mcr-fxln, fos, sli cherty, Sh: gry-drk gry
LS: crm, some gry, mcrxln, some fxln, sli cherty, Sh: drk gry-gry
LS: crm-tan, some gry, mcr-fxln, sli cherty, sli fos, some Sh: A.A.
LS: crm-tan, fxln, sli cherty, fos, Sh: drk gry
LS: tan-crm, fxln, sli fos, sli cherty, Sh: A.A.
LS: tan, some crm, mcrxln, some fxln
LS: tan-brwn, some crm, mcrxln, cherty, Sh: lt gry-gry



LS: tan, some crm, mcr-fxln, cherty, sli fos, Sh: drk gry-gry

LS: tan, somecrm, mcrxln, cherty, sli fos, Sh: A.A.

LS: tan-crm, some brn, mcr-fxln, cherty, fos, sli chalky

LS: crm-tan, mcr-fxln, sli cherty, sli fos, sli chalky

LS: crm, some tan, fxln, sli fos, Sh: gry-lt gry

LS: tan-crm, mcr-fxln, sli cherty

LS: tan-crm, mcrxln, some fxln, cherty, sli fos, Sh: gry

LS: crm, sli gry, mcrxln, some fxln, cherty, fos, Sh: gry-drk gry-lt gry

LS: crm-tan-gry, mcr-fxln, sli cherty, sli fos, some ool, Sh: A.A.

LS: crm, few gry, mcrxln, some fxln, sli cherty, sli fos, Sh: gry-lt gry

LS: crm-tan, fxln, fos, sli cherty, Sh: gry-lt gry-drk gry

LS: crm-tan-gry, mcrxln, sli chalky, sli fos, some chert

LS: crm-tan, some gry, mcr-fxln, sli ool, sli chalky, some chert, Sh: drk gry-gry

LS: and Sh: A.A.

LS: crm, some tan, mcrxln few fxln, sli ool, sli chalky, sli cherty

LS: crm, sli gry, mcrxln, sli ool, sli chalky, sli cherty, some Sh: gry-lt gry

LS: crm-gry, mcrxln,

LS: A.A. sli fos,

LS: tan, sli gry, mcrxln, some fxln, sli chalky, sli cherty, some pieces fos

LS: crm-gry, some tan, fxln, some mcrxln, cherty, sli chalky, fos,

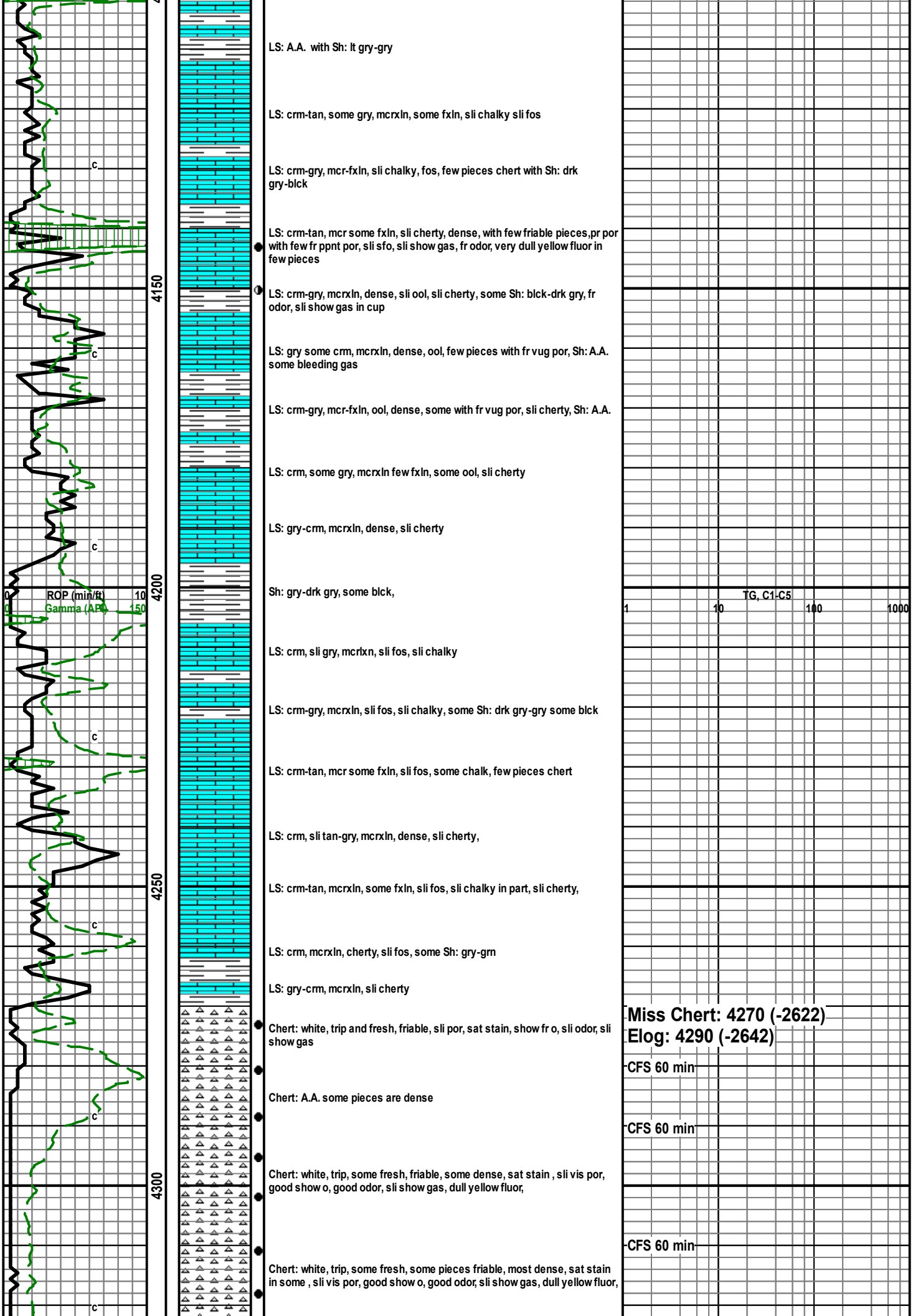
LS: tan-crm, some brn, fxln, some mcrxln, cherty, fos, sli chalky

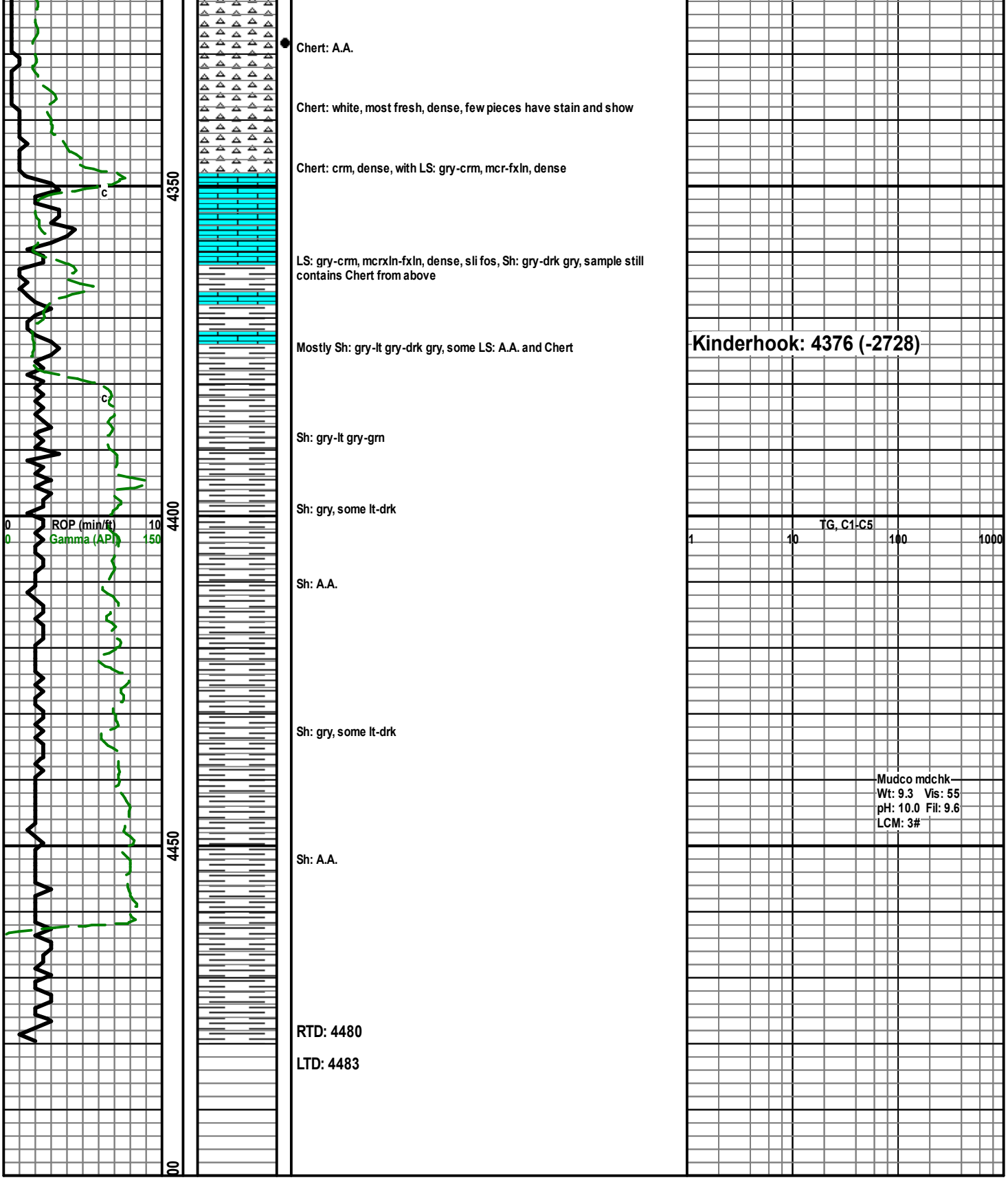
LS: crm-tan, mcrxln, sli chalky, sli fos, some Sh: drk gry-gry, few blck

Mudco mdck
Wt: 9.0 Vis: 50
pH: 10.5 Fil: 8.8
LCM: 1#

TG, C1-C5
1 10 100 1000

Stark Shale: 4096 (-2448)


4150
4200
4250
4300
ROP (min/ft) 0 10
Gamma (API) 0 150
TG, C1-C5
1 10 100 1000
LS: A.A. with Sh: lt gry-gry
LS: crm-tan, some gry, mcrxln, some fxln, sli chalky sli fos
LS: crm-gry, mcr-fxln, sli chalky, fos, few pieces chert with Sh: drk gry-blck
LS: crm-tan, mcr some fxln, sli cherty, dense, with few friable pieces,pr por with few fr ppnt por, sli sfo, sli show gas, fr odor, very dull yellow fluor in few pieces
LS: crm-gry, mcrxln, dense, sli ool, sli cherty, some Sh: blck-drk gry, fr odor, sli show gas in cup
LS: gry some crm, mcrxln, dense, ool, few pieces with fr vug por, Sh: A.A. some bleeding gas
LS: crm-gry, mcr-fxln, ool, dense, some with fr vug por, sli cherty, Sh: A.A.
LS: crm, some gry, mcrxln few fxln, some ool, sli cherty
LS: gry-crm, mcrxln, dense, sli cherty
Sh: gry-drk gry, some blck,
LS: crm, sli gry, mcrlxn, sli fos, sli chalky
LS: crm-gry, mcrxln, sli fos, sli chalky, some Sh: drk gry-gry some blck
LS: crm-tan, mcr some fxln, sli fos, some chalk, few pieces chert
LS: crm, sli tan-gry, mcrxln, dense, sli cherty,
LS: crm-tan, mcrxln, some fxln, sli fos, sli chalky in part, sli cherty,
LS: crm, mcrxln, cherty, sli fos, some Sh: gry-grn
LS: gry-crm, mcrxln, sli cherty
Chert: white, trip and fresh, friable, sli por, sat stain, show fr o, sli odor, sli show gas
Chert: A.A. some pieces are dense
Chert: white, trip, some fresh, friable, some dense, sat stain , sli vis por, good show o, good odor, sli show gas, dull yellow fluor,
Chert: white, trip, some fresh, some pieces friable, most dense, sat stain in some , sli vis por, good show o, good odor, sli show gas, dull yellow fluor,
Miss Chert: 4270 (-2622)
Elog: 4290 (-2642)
CFS 60 min
CFS 60 min
CFS 60 min


4350
4400
4450
0
ROP (min/ft)
10
0
Gamma (API)
150
c
c
Chert: A.A.
Chert: white, most fresh, dense, few pieces have stain and show
Chert: crm, dense, with LS: gry-crm, mcr-fxln, dense
LS: gry-crm, mcrxln-fxln, dense, sli fos, Sh: gry-drk gry, sample still contains Chert from above
Mostly Sh: gry-lt gry-drk gry, some LS: A.A. and Chert
Sh: gry-lt gry-grn
Sh: gry, some lt-drk
Sh: A.A.
Sh: gry, some lt-drk
Sh: A.A.
RTD: 4480
LTD: 4483
Kinderhook: 4376 (-2728)
TG, C1-C5
1
10
100
1000
Mudco mdchk
Wt: 9.3 Vis: 55
pH: 10.0 Fil: 9.6
LCM: 3#

ALLIED OIL & GAS SERVICES, LLC

063997

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Great Bend

DATE 10-09-14	SEC. 1	TWP. 31	RANGE 12	CALLED OUT	ON LOCATION 1:45AM	JOB START 500 AM	JOB FINISH 600 AM
LEASE CHAIN Ranch B	WELL # 3		LOCATION 99 Springs Rd 1 North 1 East			COUNTY Barber	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR Pickrell
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D. 310
CASING SIZE 8 5/8 DEPTH 307.09
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15 ft
PERFS.
DISPLACEMENT 18.60

OWNER

CEMENT 190
AMOUNT ORDERED 200 sxs Class A 3% CC ~~2% Gel~~

EQUIPMENT

PUMP TRUCK CEMENTER Kevin Eddy
#366 HELPER Brian Lang
BULK TRUCK
#609/239 DRIVER Kevin Weighous
BULK TRUCK
DRIVER

COMMON	190	@ 17.90	3,401.00
POZMIX		@	
GEL		@	
CHLORIDE	536	@ 1.10	589.60
ASC		@	
	Materials Total		3,990.60
	Disc	25%	997.65
		@	
		@	
		@	
		@	
	Service		
		@	
HANDLING	200.61	@ 2.48	497.51
MILEAGE	64.39	2.75	177.08

REMARKS:

On Location, Held Safety meeting Rig up Rig Crew Ran 8⅝ @ 307.09ft of casing Hook To swedge. Break Circ w Rig mud. Pump 5 Ahead. mix 200 sxs Class A 3% CC ~~2% Gel~~. Displace 18.60 BBls Fresh H2O Shut in. Rig Down.

DEPTH OF JOB			
PUMP TRUCK CHARGE			1512.20
EXTRA FOOTAGE		@	
MILEAGE	Hvm 7	@ 7.70	53.80
MANIFOLD		@ 275.00	275.00
	hvm 7	@ 4.40	30.80
		@	
TOTAL			2,546.52
Disc	25%		636.63

CHARGE TO: White Exploration
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
Disc 0% TOTAL		0

Thank you!

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)
TOTAL CHARGES 6,537.12
25% DISCOUNT 1,634.28 IF PAID IN 30 DAYS (25/25/25)
4,902.84

PRINTED NAME Mike Kern

SIGNATURE Mike Kern

ALLI( )OIL & GAS SERVICE , LLC 064480

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Medicine Lodge Ks

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
10-15-14	1	31S	12W		8:30 A	1:30 P	2:45 P

LEASE	WELL #	LOCATION	COUNTY	STATE
Chain Ranch	B 3	99 Springs E 3/4 E to Curve South into	Barber	KS

OLD OR (NEW) (Circle one)

CONTRACTOR Pickrell
TYPE OF JOB Production
HOLE SIZE 7 7/8 T.D. 4483
CASING SIZE 5 1/2 15.5 DEPTH 4486
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 20.95
CEMENT LEFT IN CSG. 20.95
PERFS.
DISPLACEMENT 107 Fresh

OWNER White Exploration

EQUIPMENT

PUMP TRUCK CEMENTER Jake Heard
892 555 HELPER Jason Thimesch
BULK TRUCK
381/252 DRIVER Robert Johnson
BULK TRUCK
DRIVER

CEMENT

AMOUNT ORDERED 505sx 60:40:4 %Gel
145 sx Asc + 5# Kolseal + .3% FL-160
+ Defoamer

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC Class A 145 sx	@	23.50	3407.50
Allied 60/40 505x	@	18.92	946.00
Gyp Seal 725#	@	.88	638.00
FL-160 41#	@	18.90	774.90
Defoamer 21#	@	3.50	73.50
	@		
Superflush 12.66L	@	25.00	300.00
	@		
	@		
HANDLING	@		
MILEAGE			

20% = 1719.53 TOTAL 6139.90

REMARKS:

SERVICE

DEPTH OF JOB 4486
PUMP TRUCK CHARGE 2765.75
~~EXTRA FOOTAGE~~ LL 7 @ 4.40 30.80
MILEAGE 7 @ 7.70 53.90
MANIFOLD + Head @ 275.00
Handling 252.94 cu/ft @ 2.48 627.30
Drayage 72.75 @ 2.75 200.01

20% = 1106.77 TOTAL 3952.76

CHARGE TO: White Exploration
STREET
CITY STATE ZIP

5 1/2

PLUG & FLOAT EQUIPMENT

LLDP	@		660.00
Float Shoe	@		545.00
Basket	@		395.00
Centralizer 7	@	57.00	399.00
Roating Scratcher 25	@	2.00 of 41.00	3525.00

20% = 1546.72 TOTAL 5524.00

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)
TOTAL CHARGES 15616.66
DISCOUNT 11244.00 IF PAID IN 30 DAYS

PRINTED NAME Terry Baird

SIGNATURE Terry Baird White Exploration