Confidentiality Requested: Yes No

# KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1191139

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 #	API No. 15					
Name:	Spot Description:					
Address 1:						
Address 2:	Feet from  North / South Line of Section					
City: State: Zip:+	Feet from East / West Line of Section					
Contact Person:	Footages Calculated from Nearest Outside Section Corner:					
Phone: ()						
CONTRACTOR: License #	GPS Location: Lat:, Long:					
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)					
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84					
Purchaser:	County:					
Designate Type of Completion:	Lease Name: Well #:					
New Well Re-Entry Workover	Field Name:					
	Producing Formation:					
	Elevation: Ground: Kelly Bushing:					
Gas D&A ENHR SIGW	Total Vertical Depth: Plug Back Total Depth:					
GG GSW Temp. Abd.	Amount of Surface Pipe Set and Cemented at: Feet					
CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No					
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet					
Operator:	If Alternate II completion, cement circulated from:					
Well Name:	feet depth to:w/sx cmt.					
Original Comp. Date: Original Total Depth:						
Deepening Re-perf. Conv. to SWD						
Plug Back       Conv. to GSW       Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)					
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls					
Dual Completion     Permit #:	Dewatering method used:					
SWD     Permit #:	Location of fluid disposal if hauled offsite:					
ENHR Permit #:						
GSW Permit #:	Operator Name:					
	Lease Name: License #:					
Spud Date or Date Reached TD Completion Date or	Quarter Sec Twp S. R East West					
Recompletion Date Recompletion Date	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							
Confidentiality Requested							
Date:							
Confidential Release Date:							
Wireline Log Received							
Geologist Report Received							
UIC Distribution							
ALT I II III Approved by: Date:							

	Page Two	1191139
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East West	County:	
INCTRUCTIONS. Chaw important tapa of formations panatrated	Datail all aaraa Bapart all	final conice of drill stome tests giving interval tested, time test

**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 (Attach Additional She	eets)	Yes No		Log Formation (Top), Depth and Datum		Sample	
Samples Sent to Geological Survey		Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
			RECORD Ne				
		Report all strings set-	conductor, surface, inte	rmediate, producti	ion, 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 / SQL	IEEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and P	ercent Additives	
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				ŀ		ement Squeeze Record I of Material Used)	Depth		
TUBING RECORD:	ORD: Size: Set At: Packer At:			r At:	Liner R	un:	No			
Date of First, Resumed Production, SWD or ENHR.			ł.	Producing N		ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	S.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
									I	
DISPOSITION OF GAS:				METHOD OF COMPLE		TION:		PRODUCTION INTER	VAL:	
Vented Sold Used on Lease				Open Hole	Perf.	Dually		Commingled		
(If vented, Submit ACO-18.)				Other <i>(Specify</i> ,	)	(Submit /	,	(Submit ACO-4)		

Form	ACO1 - Well Completion
Operator	Palmer Oil, Inc.
Well Name	UPC 23-6
Doc ID	1191139

# Tops

Name	Тор	Datum
Heebner	4147'	-1023
Lansing	4268'	-1144
Marmaton	4932'	-1808
Cherokee	5125'	-2001
Morrow	5635'	-2511
St.Gen	6214'	-3090
St. Louis	6304'	-3180
St.Louis B	6368'	-3244

Form	ACO1 - Well Completion
Operator	Palmer Oil, Inc.
Well Name	UPC 23-6
Doc ID	1191139

# Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.250	8.625	24	1745	Class A		6%gel,3% CC
Production	7.875	5.50	15.5	6497	AA-2	200	



and the second second

CEMENTING LOG

STAGE NO.

Bits         Control         Prove         The Section         Market           ASING DATA         Control         PTA         Section         Section         Prove         The Section         Prove         The Section         Prove         The Section         Prove         Prove         The Section         Prove         Prove <th>ompany Palmer Oil ase_O</th> <th>-Rig Dyke =</th> <th>#9</th> <th></th>	ompany Palmer Oil ase_O	-Rig Dyke =	#9	
Bit         Construct         Construct <thconstruct< th=""> <thconstr< th=""><th>aseO</th><th></th><th></th><th>DO DO DO DO</th></thconstr<></thconstruct<>	aseO			DO DO DO DO
Juny         Juny <thjuny< th="">         Juny         Juny         <thj< td=""><td></td><td>Well No 20-2</td><td>2</td><td></td></thj<></thjuny<>		Well No 20-2	2	
Caston         Huighten         KS         Fast           ASING DATA         Contactor         PTA         Separate         Mac C           ASING DATA         Contactor         PTA         Separate         Mac C           ASING DATA         Contactor         PTA         Separate         Mac C           ASING DATA         Contactor         PTA         Developed         The The Separate           ASING DATA         Contactor         PTA         Developed         The The Separate         Developed           ASING DATA         Contactor         PTA         Developed         The The Separate         Developed           ASING DATA         Contactor         PTA         Developed	sunty Stevens	1-1		1
ASING DATA         Consultor         PTA         Squeeze         Mac           ASING DATA         Consultor         PTA         Squeeze         Mac         Ann.         LCCS         save 1.47         Total Data         Total Dat	Ilucator Ve			LEAD: Pump Timehrs. Type Class A, 6966
ASIND DATA       Conductor       PTA       Squeeze I       Mac I         ms & Sites B       The program				
Surface         Proteneositie         Proposition         Line Protein         The Proc (1635 A - 25/L)           is M 124         Type J - 55         Weight 24 Color         The Proor Time         The Proor Time <td< td=""><td>ASING DATA: Conductor</td><td></td><td></td><td></td></td<>	ASING DATA: Conductor			
in S       1/5       Type_J.SS       Weight 24T color			C	······································
Am         200         ste Year         1/18         r/sic Donaty         1/5.6         pr           sing Depths Top         D         Bettom         17415-444         Pump Trucks Used         1         200         Bit Kgab         200         100         200         100         200         100         200         100         200         100         200         100         200         100         200         100         200         100         200         100         200         100         200         100         200         100         200         100         200         100         200         1		1		
WATER Level         D.90.         pak/sk Tool         COD         BOD           sing Depth: Too	vveignt	Conar		
uing Depth: Top         D         Bottom         TTVS: YYY         Pump Tructs Used         J           II Pipe: Size				
But Equip     Z       If Pres Size     Velopit     Collers       If Pres Size     TD     TD     TD       If Pres Size     Depth     TD     TD       If Pres Size     Depth     Depth     Depth       If Pres Size     Depth     TD     TD       If Pres Size     Pres Size     Depth     TD       If Pres Size     Pres Size     Size     File       If Cold Pre     If Pres Pres Pres </td <td></td> <td></td> <td></td> <td>gais/sk total Bb</td>				gais/sk total Bb
But Equip     Z       If Pres Size     Velopit     Collers       If Pres Size     TD     TD     TD       If Pres Size     Depth     TD     TD       If Pres Size     Depth     Depth     Depth       If Pres Size     Depth     TD     TD       If Pres Size     Pres Size     Depth     TD       If Pres Size     Pres Size     Size     File       If Cold Pre     If Pres Pres Pres </td <td>sing Depths: Top</td> <td>1745.41</td> <td>da i</td> <td>Pumo Trucks Used</td>	sing Depths: Top	1745.41	da i	Pumo Trucks Used
III Pipe Size       Weight       Collars       FR         an Hole Size       12 /14       TD       TDS       ft PR to         and Weight       Collars       FR       Stort France       Stort France         and Weight       Collars       FR       Stort France       Depth       Depth         and Weight       Collars       FR       Stort France       Depth       Depth         and Weight       Collars       FR       Stort France       Depth       Depth         make       Bbs/Lin ft       Lin fr/Bbi       Store Trap       After Lin ft /18       Store Trap       After Lin ft /18         make       Bbs/Lin ft       Lin ft /18       Depth       Depth       Am 100 Bits Prefere       Bes Weight       Prefere         model from       ft       In ft /18       Depth       Depth       Bes Weight       Prefere         model from       ft       In ft /18       Depth       Depth       Bes Weight       Prefere         model from       ft       In ft /18       Depth       Depth       Bes Weight       Prefere         from from       ft       Mrefere       Mrefere       Mrefere       Mrefere       Mrefere       Mrefere       Mrefere <td< td=""><td>bottom</td><td></td><td></td><td></td></td<>	bottom			
Point Hele: Size       12/4       TD       1750       ft. PB to       ft.         Prioritization:       Bibs/Lin. ft.       0.0530       Since: Type       Affect Value       Depth         Since: Type       Bibs/Lin. ft.       Uin. ft./Bbi.       Since: Type       Affect Value       Depth         Bibs/Lin. ft.       Uin. ft./Bbi.       Since: Type       Affect Value       Depth         Bibs/Lin. ft.       Uin. ft./Bbi.       Since: Councity       Disp. Field Sign: Councit       Disp. Field Sign: Councit         Bibs/Lin. ft.       Uin. ft./Bbi.       Since: Councit       Disp. Field Sign: Field Sign: Councit       Disp. Field Sign: Councit       Field Sign: Councit       Disp. Field Sign: Councit       Disp. Field Sign: Councit       Disp. Field Sign: Councit       Disp. Field Sign: Councit       Field Sign				sour solution
Point Hele: Size       12/4       TD       1750       ft. PB to       ft.         Prioritization:       Bibs/Lin. ft.       0.0530       Since: Type       Affect Value       Depth         Since: Type       Bibs/Lin. ft.       Uin. ft./Bbi.       Since: Type       Affect Value       Depth         Bibs/Lin. ft.       Uin. ft./Bbi.       Since: Type       Affect Value       Depth         Bibs/Lin. ft.       Uin. ft./Bbi.       Since: Councity       Disp. Field Sign: Councit       Disp. Field Sign: Councit         Bibs/Lin. ft.       Uin. ft./Bbi.       Since: Councit       Disp. Field Sign: Field Sign: Councit       Disp. Field Sign: Councit       Field Sign: Councit       Disp. Field Sign: Councit       Disp. Field Sign: Councit       Disp. Field Sign: Councit       Disp. Field Sign: Councit       Field Sign				
Point Hele: Size       12/4       TD       1750       ft. PB to       ft.         Prioritization:       Bibs/Lin. ft.       0.0530       Since: Type       Affect Value       Depth         Since: Type       Bibs/Lin. ft.       Uin. ft./Bbi.       Since: Type       Affect Value       Depth         Bibs/Lin. ft.       Uin. ft./Bbi.       Since: Type       Affect Value       Depth         Bibs/Lin. ft.       Uin. ft./Bbi.       Since: Councity       Disp. Field Sign: Councit       Disp. Field Sign: Councit         Bibs/Lin. ft.       Uin. ft./Bbi.       Since: Councit       Disp. Field Sign: Field Sign: Councit       Disp. Field Sign: Councit       Field Sign: Councit       Disp. Field Sign: Councit       Disp. Field Sign: Councit       Disp. Field Sign: Councit       Disp. Field Sign: Councit       Field Sign	III Dina: Ciza	College		
UPACTY FACTORS:     Shot: Type	10111 1001			Dans Enviro Monufacture
Bing     Bis/Lin ft     Lin ft/Bil     Flue     Flue     Flue     Lin ft/Bil     Contrations Countily     Depth       Im Hobes     Bis/Lin ft     Lin ft/Bil     State Color     Centratizers Countily     Phys Top     Bitm       Imakes     Bis/Lin ft     Lin ft/Bil     State Color     State Color     State Color       Imakes     Bis/Lin ft     Lin ft/Bil     State Color     State Color     State Color       Imakes     Bis/Lin ft     Lin ft/Bil     State Color     State Color     State Color       Imakes     Bis/Lin ft     Lin ft/Bil     State Color     State Color     State Color       Imakes     Bis/Lin ft     Lin ft/Bil     State Color     State Color     State Color       Imakes     Bis/Lin ft     Lin ft/Bil     State Color     State Color     State Color       Imakes     Bis/Lin ft     Lin ft/Bil     State Color     State Color     State Color       Imakes     Imakes     Imakes     Imakes     State Color     State Color     State Color       Imakes     Imakes     Imakes     Imakes     Bis/Lin ft     Imakes     State Color     State Color       Imakes     Imakes     Imakes     Imakes     Imakes     Imakes     Imakes     Imakes		rt. P.B. to		
Bob/Lin ft       Lin ft/Bbl       13.6037       Centralizer Quantity       2       Plags Top       Bits         III Pre:       Bits/Lin ft       Lin ft/Bbl       Stage Collins       Stage Collins       Stage Collins         III Pre:       Bits/Lin ft       Lin ft/Bbl       Stage Collins       Stage Collins       Stage Collins         Bits/Lin ft       Lin ft/Bbl       Dip Fuld Type       Fresh Water       Amt. ICS, Bits, Weight       Stage         Time       PRESSURES PSI       FLUID PUMPED DATA       Mud Type       Weight       Pressures         TIME       PRESSURES PSI       FLUID PUMPED DATA       REMARKS         AM/PM       DRILL PPE       ANNULUS       RUT       Time Period       RATE         G1:30 P       Centralizer Market       REMARKS       Stage Collins       Stage Collins         G1:30 P       RED       REMARKS       REMARKS       Stage Colling       Stage Colling         G1:30 P       RED       REMARKS       REMARKS       REMARKS       Stage Colling       Stage Coll	n 51		5	Shoe: Type Depth
III Pipe:       Bible/Lin. ft.       Lin. ft./Bbl.       Stage Colors         Indue:       Bible/Lin. ft.       Lin. ft./Bbl.       Special Equip Censult Fursh Water Amt. 10% Bible. Weight Es.33 pp.         If Bible/Lin. ft.       Lin. ft./Bbl.       Disp. Fluid Type Firsh Water Amt. 10% Bible. Weight Es.33 pp.         If Bible/Lin. ft.       Lin. ft./Bbl.       Disp. Fluid Type Firsh Water Amt. 10% Bible. Weight Es.33 pp.         If Bible/Lin. ft.       Lin. ft./Bbl.       Disp. Fluid Type Firsh Water Amt. 10% Bible. Weight PP.         If Memory Representative Entry for the firsh Provide Bible Min.       Remarks         MMPM VREPRESENTATIVE Entry for the firsh Provide Bible Min.       REMARKS         G1.30 P       FLUID PUMPED DATA       REMARKS         G1.30 P				
nnus: Bole/Lin. ft Lin. ft./Bbi Boeial Equip Centurt Basket Boe/Lin. ft Lin. ft./Bbi Depressions: From ft. to It. Amt Depressions: From ft. to Mud Type Nud Type Weight PP manave representative Mud Boe Mud Type Nud Type Veight PP manave representative Mud Boe Nud Type Nud Type Veight PP manave representative Mud Pression Kodu (gr 2 TIME PRESSURES PSI FLUID PUMPED DATA Ring up Floor REMARKS REMARKS REMARKS REMARKS REMARKS (Gr 2) = Pression Floor (free k_ udder		.,		
Bbs/Lin. ft.       Uin. ft. /Bbi.       Disp. Fluid Type Fresh Water Amt 10% Bbis, Weight 8:55 pp         riversions       From			5	Stage Collars
rforations: From			ś	Special Equip. CEMENT TRISKET
IMPANY REPRESENTATIVE Immediate     FLUD PUMPED DATA     REMARKS       TIME     PRESSURES PSI     FLUD PUMPED DATA     REMARKS       AM/PM     DRILL PPE     ANNULUS     TOTAL     Pumped Pred     RATE       G130 P     IIII     PIMPE PRED     IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Bbls/Lin. ft Lin. 1	t./Bbl	C	Disp. Fluid Type Fresh Water Amt. 108 Bbls. Weight 8.33 ppc
Impany REPRESENTATIVE Immediate     FLUID PUMPED DATA     REMARKS       TIME     PRESSURES PSI     FLUID PUMPED DATA     REMARKS       AM/PM     DIRLL PPE     ANNULUS     TOTAL     Pumped Period       9130 P     IIII     Pressures     Rig up Floor       9130 P     IIII     Rig up Floor     IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			N	Mud Type Weight PPC
TIME     PRESSURES PSI     FLUID PUMPED DATA     Remains       AM/PM     DRILL P/E     ANNULUS     TOTAL     Pumped Period     Bate       9:30     0     1     Pumped Period     Bate     REMARKS       9:30     0     1     Fund     Pumped Period     Remains       9:30     1     0     1     Fund     Pumped Period       9:30     1     10     1     Fund     Pumped Period       9:30     10     1     Fund     Fund     Fund       9:30     10     1     Fund     State     Fund       9:30     10     1     Fund     Fund     Fund       10:32     190     2:19     7     Fund     Fund       10:32     190     2:19     7     Fund     Fund       11:30     9:30     42     7     Fund     Fund       11:30     3:30     55     5     5     S       11:30     3:30     55     5     5     S       12:00 A     500     108     3     Bumpe flog:     Sumped A: so psi and fool t       12:00 A     500     108     108     Fund job     Good Fedures undote job	- 1.	2-		
AM/PM     OPRILIPPE CASING     ANNULUS     TOTAL RUDD     Pumped Per Time Period     RATE Baskin, Baskin, Rig up Floor     REMARKS       9:30 P	DMPANY REPRESENTATIVE	12pr		CEMENTER Folger Kodriguez
AN/PM       DPULLIP PPE CASING       ANNULUS       PUTTODE PPT Time Period       BBB Min.         9:30 P       P       Provot Safety Meeting       Provot Safety Meeting         9:30 P       P       Provot Safety Meeting       Provot Safety Meeting         9:30 P       P       Provot Safety Meeting       Provot Safety Meeting         9:35 P       100       Provot Safety Meeting       Provot Safety Meeting         9:35 P       100       Provot Safety Meeting       Provot Safety Meeting         9:35 P       100       Provot Safety Meeting       Provot Safety Meeting         9:35 P       100       Provot Safety Meeting       Provot Safety Meeting         10:03 P       100       Provot Safety Meeting       Provot Safety Meeting         11:30 P       11:00       H2       Provot P Plug       Provot Safety Meeting         11:30 P       355       S       Provot P Plug       Provot P Plug       Provot P Plug         12:02 A       Provot P Plug       Soo P Plug       Provot P Plug       Plug       Provot P Plug         12:02 A       Provot P Plug       Provot P Plug       Provot P Plug       Plug       Plug         10:00       Provot P Plug       Plug       Plug       Plug       Plug       Pl	the second s			REMARKS
9:30 P 9:30 P 9:30 P 9:57 1000 9:57 1000 10:03 P 190 219 10:03 P 190 219 10:03 P 190 219 10:03 P 100 42 11:30 P 11:20 P 11:20 P 11:20 P 11:30 P 11:30 P 11:30 P 11:30 P 10:35 S 10:35 S 10:	AM/PM DRILL PIPE ANNULUS TOTA CASING ANNULUS FLUID	D Pumped Per Time Period	Bbls Min.	
9:55P       1000       Test Lines       1         9:55P       1000       Test Lines       1         10:03P       190       2/9       7       Pump Space (freek Water)         10:03P       190       2/9       7       Pump Space (freek Water)         11:05P       100       42       7       Pump Level (b25 Sks class Acmt (g)15.4)         11:05P       100       42       7       Pump Tail (200 Sks class Acmt (g)15.4)         11:19P       5       55       5       Shuldown         11:20P       555       5       5       Cht back to sulface. 53 bb/s To         11:30P       350       55       5       Sump Plug. Bumped at soo psi and took to         12:02A       108       3       Bump Plug. Bumped at soo psi and took to         12:02A       108       3       Ford Isb. Good Refurs whole Job         12:02A       108       108       Tend Isb. Good Refurs whole Job         12:02A       108       108       109       100         12:02A       108       108       100       100       100         11:04       108       108       109       100       100       100         11:05       108 <td< td=""><td></td><td></td><td>94.4 1</td><td>Prevob Safety Meeting</td></td<>			94.4 1	Prevob Safety Meeting
9:55P       1000       10       100 <td< td=""><td></td><td>5- 54 A</td><td>t É.</td><td></td></td<>		5- 54 A	t É.	
A: SAP       10       L. Pump Spacer (Fresh Water)         10:03 P       190       219       7       Pump Lead (L2S Sks class Acmt (A) 12.4)         11:05 P       1100       42       7       Pump Tail (200 35ks class Acmt (A) 15.6)         11:05 P       1100       42       7       Pump Tail (200 35ks class Acmt (A) 15.6)         11:07 P       0       0       100       0         11:20 P       0       0       0       0         11:20 P       0       0       0       0       0         11:20 P       0       0       0       0       0       0         11:20 P       00       0<	O LODA			
10:03P       190       219       7       Pump Lew (1025 Sks class Acmt (2)12:4).         11:00       42       7       Pump Tail (200 Sks class Acmt (2)15:6)         11:19P       Shuldown       Shuldown         11:20P       Drop Tep Plug       Shuldown         11:21P       200       6       Pump Clew         11:31p       380       55       5         12:02A       Check Floats. Vz bol back to surface. 53 bbls To         12:02A       Check Floats. Vz bol back         12:05A       Find Job. Good Refunct W         12:05A       Thunk VU			6	
Hiss P 160 42 7 Pump Tail 200 Ster class Armit (2)(5.6) 11:19 P Shuldown 11:20 P Drop Jep Plug 11:21 P 200 6 Pump Displayeliment at 11:36 P 380 55 5 5 5 5 Cmt back to sulfare. 53 bbls To 12:00 A 500 108 3 Bump Plug. Bumped at soo psi and took t 12:02 A 500 108 5 Check Floats. Ye bbl back 12:05 A 50 5 Find Job. Good Refurns whole Job Thank You			7	
11:19 P     II: 20 P     Drop Top Plug       11:20 P     Drop Top Plug       11:20 P     Start down       11:30 P     355       55     5       55     5       55     5       56     55       57     Strup Plug.       12:00 A     500       108     3       7     Drop Top Plug.       12:02 A     Cut back to Sulface. 53 bbls To       12:02 A     Check tog.ts. Ye bbl back       12:03 A     Find Job. Good Petures whole Job			7	
11:20P       Drop Top Plug         11:21P       200         11:36P       350         12:00A       55         108       3         12:00A       50         108       3         12:00A       50         12:00A       50         108       3         11:00A       500         108       3         11:00A       500         108       3         11:00A       500         108       3         11:00A       500         12:02A       Check Cloats. 1/2 bol back         12:05A       Find Job? Good Refurs whole Job         11:00A       100         12:05A       Find Job? Good Refurs whole Job         11:00A       100		4.	1	Shuddawal
12.02 A. 12.02 A. 12.03	11:208			DOR TOP Plus
12.02 A. 12.02 A. 12.03			1-	River Disely sugart
12.02 A. 12.02 A. 12.03				Cut have to Sullard 53 White To
12.02 A. 12.02 A. 12.03				The wal plure B. and al can per I take +
TEND Job. Good Refurns whole job			3	Classic blacks the ball back
Thank You				The flat - 12 Dot Dalk
·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·	C105 M			FUD JOU. (1000 FETUIN) WHOLE JOU
·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·       ·     ·     ·     ·     ·				
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	1			
		-		
AL DISP. PRESS: 500 PSI BUMP PLUG TO 1000 PSI BLEEDBACK 12 BBLS. THANK YOU		-		



1700 S. Country Estates Rd. Liberal, Kansas 67905 Phone 620-624-2277

# FIELD SERVICE TICKET

1717 04492 A

PHESSURE PUMP			DATE	TICKET NO.	·					
DATE OF 121/13 C		OLD WELL				STOMER DER NO.:				
CUSTOMER Palmer Dil American Warriol					PC		23	-6	WELL NO.	
ADDRESS	1			COUNTY 4	Stene	alns	STATE	KS		
CITY STATE					SERVICE CREW TOMMY, Dairel					
AUTHORIZED BY Tyce	8			JOB TYPE:	242					
EQUIPMENT# HRS	EQUIPMENT#	HRS	EQU	IPMENT#	HRS	TRUCK CALL	ED	DATE	AM TIME	
78939 5.5					-	ARRIVED AT	JOB		AM (1.30	
39223399765,5						START OPER	ATION		P. 24	
145-JJ JTTDIJ						FINISH OPER	ATION		\$ 22:35	
						RELEASED			(AM 23:10	
i j			a			MILES FROM	STATION TO	O WELL	50	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered). The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: madig Pr (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL105	AN-Z-IA	SK	200		
CL103	60/40 POZ	SK	50		
CC113	Guison	Lb	940		
CC III	5d'1+	Lb	1107		
CC103	C-41 P	Lb	47		
CC 201	Gilsente	Lb	1000		
CF1251	Auto Cill Elicat Share	FA	(		2.00
CF607	Latch Down PTB	FA	1		
CF4452	Centralizor	EA	12		
CF4552	Toasket	EA	(		
(F 3000	Thread lock	EA	1	*	
CC151	mild Flush	ga 1	500		
E 101	HEAVY EQUID MILLEAGE	Ni	100		
(E240	Blanding + Mung Change	SK	250		
E113 .	Bulk Delivery	TM	598		
CE207	Depth Charge GLOI to TOO	4/60	/		
CEGUL	Plus Conte ur	306	(		
E100	PICKUP Mileage	Wil	50		1
5003	Service Superlisol	EA	1		

	CHEMICAL / ACID	DATA:			SUB TOTAL	10.854.1	62
				SERVICE & EQUIPMENT	%TAX ON \$		
				MATERIALS	%TAX ON \$		
				-	TOTAL		
	<u> </u>				/		
0551405		1	1000 011 011 011 011 011 011 011 011 01		1/2 1. 0		

	11172	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY	Emindio Boias
FIELD SERVICE ORDER NO.		(WELL OWNER	OPERATOR CONTRACTOR OR AGENT

CLOUD LITHO - Abilene, TX

(в)	BA		3				0		
	Libera	SERVICE I, Kansas	5			10.00	Cement Report		
Customer	almer O	il/Ame	vican Warpe	Lease No.		Date	1/21/14		
Lease ()	PC	/		05-6			ce Receipt		
Casing 6	51/2	Depth 64	97.	County 5	tevens	State KS	-		
Job Type	5.		Formation		Legal	Description			
		Pipe I	Data		Perf	orating Data	Cement Data		
Casing size	51/2		Tubing Size			Shots/Ft	Lead 200 SX AK)-		
Depth /oL	0417, 7				From	То	@14.5#		
Volume 153.		Volume	-	From	То	1.51 6.64			
Max Press	155.6		Max Press		From	То	Tail in 50 5x 60/40 Poz for Rt		
Well Conned	ction DC		Annulus Vol.		From	То	60/40 PCZ for Rt		
Plug Depth	<u> </u>	1	Packer Depth		From	То			
Time	Casing Pressure	Tubing Pressure	Bbls. Pumbed	Rate		Servic	ce Log		
16:30					onla	Spott T	2. U. Satta unte		
21.24	2560			1	Test 1	11105			
24	360		17	5		mud flush			
	1		5	6	11-75 <	NGC T	and the second		
2:30	360				Plus	RIM			
21,36	2110		0	5	A Mic	LIVICI QILI	<#		
21:50	340		64	2-	St MIG	KING COTO	DI 10		
22:03	0		11		Washin	P. Prop	FIOG		
22:10	270		0	7	Start	DISP			
22:30	640		143	3	Slow 1	sall_			
22:35	850-15	00	153.6	K	Mug L	Dur	+ Ilalat		
22:37	Ø				Release		bal MelCl		
					10000	iompilete			
					10				
R.									
- R									
					+				
Service Unit	· 12.67	a	ומשקקקתק	117621	2075	· · · · · · · · · · · · · · · · · · ·			
			37223379926 T. Margelles	143500	I D				
Driver Name	es CHin	é	1. Wergelles	10.1200	C				

Station Manager

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Customer Representative

E.M.G

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Cementer

Taylor Printing, Inc.

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# DRILL STEM TEST REPORT

Prepared For: Palmer Oil Inc.

3118 N Cummings Rd Garden City KS 67846

ATTN: Keith Reavis

## UPC #23-6

## 23-32s-37w Stevens,KS

 Start Date:
 2014.01.19 @ 02:48:15

 End Date:
 2014.01.19 @ 13:37:30

 Job Ticket #:
 56735
 DST #: 1

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.01.23 @ 15:02:17

	DRILL STEM TES	T REP	ORT				
RILOBITE	Palmer Oil Inc.		23-	32s-37w	Steven	s,KS	
ESTING , INC	er re ri canange ria		UP	C #23-6			
	Garden City KS 67846		Job	Ticket: 56	6735	DST	#:1
	ATTN: Keith Reavis		Test	t Start: 20	)14.01.19 (	@ 02:48:15	5
GENERAL INFORMATION:							
Formation:St. LouisDeviated:NoWhipstock:Time Tool Opened:06:18:00Time Test Ended:13:37:30	ft (KB)		Tes Tes Unit	ter: I	Conventior Vike Rober 65		Hole (Initial)
Interval:6354.00 ft (KB) To64Total Depth:6400.00 ft (KB) (The second secon			Refe	erence Ele KB t	evations: o GR/CF:	3112.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8846InsidePress@RunDepth:807.19 psigStart Date:2014.01.19Start Time:02:48:15TEST COMMENT:IF:BOB in 1 min. IS:No return blow FF:BOB in 2 min. FS:No return blow	End Date: End Time:	2014.01.19 13:37:30	Capacity Last Calit Time On Time Off	o.: Btm: 2	2014.01.19 2014.01.19	2014.01. @ 06:16:	45
Pressure vs. 7			PE	RESSUE	RESUM		
300 200 200 200 200 200 200 200	390 Kenpenker 990 Venpenker 990 Ve	59 116 211	Pressure (psig) 3219.73 352.85 521.86 808.54 593.32 807.19 808.81 3145.34	Temp (deg F) 143.29 146.69 149.72 157.39 157.31	Annotat Initial Hyd Open To Shut-In(1 End Shut- Open To Shut-In(2	ion ro-static Flow (1) ) -In(1) Flow (2) ) -In(2)	
Recovery				Ga	s Rates		
Length (ft) Description	Volume (bbl)			Choke (i	nches) Press	sure (psig)	Gas Rate (Mcf/d)
1118.00         mcw         5%m         95%w           248.00         w cm         30%w         70%m	13.97 3.48						
310.00 mud 100%m	4.35						
0.00 GIP = 62 ft.	0.00						
Trilobite Testing, Inc	Ref. No: 56735				2014.01.2		

	LODITE	Palmer Oil Inc.		23-32s-37	w Steven	s,KS	
<b>m</b> /	ESTING , INC.	3118 N Cummings Rd Garden City KS 67846		UPC #23-	6		
		ATTN: Keith Reavis		Job Ticket: Test Start:	56735 2014.01.19 (	<b>DST#:1</b> @ 02:48:15	
- March					2014.01.13		
GENERAL INFO	RMATION:						
		ft (KB)		Test Type: Tester: Unit No:	Convention Mike Rober 65	nal Bottom Hole ( ts	(Initial)
nterval: 6354	4.00 ft (KB) To 64	00.00 ft (KB) (TVD)		Reference I	Elevations:	3124.00 ft	(KB)
	6400.00 ft (KB) (TV					3112.00 ft	• •
Hole Diameter:	7.88 inchesHole	Condition: Fair		K	B to GR/CF:	12.00 ft	
Serial #: 8737 Press@RunDepth: Start Date: Start Time:	Outside psig ( 2014.01.19 02:48:15	@ 6355.00 ft (KB) End Date: End Time:	2014.01.19 13:37:30	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 p: 2014.01.20	sig
EST COMMEN	IS:No return blow FF:BOB in 2 min.						
	IS:No return blow FF:BOB in 2 min. FS:No retrurn blo	w					
3000 2200 1000 1000 1000 1000 1000 1000	IS:No return blow FF:BOB in 2 min. FS:No retrurn blo Pressure vs. Ti	w	Time (Min.) - 120 - 120 - 120 - 130 - 130	PRESSU Pressure Temp (psig) (deg F	Annotat		
	IS:No return blow FF:BOB in 2 min. FS:No retrurn blo Pressure vs. Ti	THC BTS/ Temporalue	- 103 (Min.) - 129 - 140 - 130 - 123	Pressure Temp (psig) (deg F	Annotat		
3000 2200 1000 1000 1000 1000 1000 1000	IS:No return blow FF:BOB in 2 min. FS:No retrurn blo Pressure vs. Ti Pressure	THC BTS/ Temporalue	- 103 (Min.) - 129 - 140 - 130 - 123	Pressure Temp (psig) (deg F	Annotat	tion	tate (Mcf/d
2000 200 2000 2	IS:No return blow FF:BOB in 2 min. FS:No retrurn blo Pressure vs. Ti Frestre Trice (stars) of Recovery Description 7 5%m 95%w	STICE DEC INFORMATION DEC INFORMATION	- 103 (Min.) - 129 - 140 - 130 - 123	Pressure Temp (psig) (deg F	Annotat	tion	tate (Mcf/d
2000 200 2000 2	IS:No return blow FF:BOB in 2 min. FS:No retrurn blo Pressure vs. Ti Pressure Recovery Description 7 5%m 95%w n 30%w 70%m	W THE DEF TOPERATE DEF TOPE	- 103 (Min.) - 129 - 140 - 130 - 123	Pressure Temp (psig) (deg F	Annotat	tion	tate (Mcf/d
2000 200 2000 2	IS:No return blow FF:BOB in 2 min. FS:No retrurn blo Pressure vs. Ti Frestre Trice (stars) of Recovery Description 7 5%m 95%w	W THC BTST TEMPORTANCE TOTAL TOTAL TOTA	- 103 (Min.) - 129 - 140 - 130 - 123	Pressure Temp (psig) (deg F	Annotat	tion	tate (Mcf/d

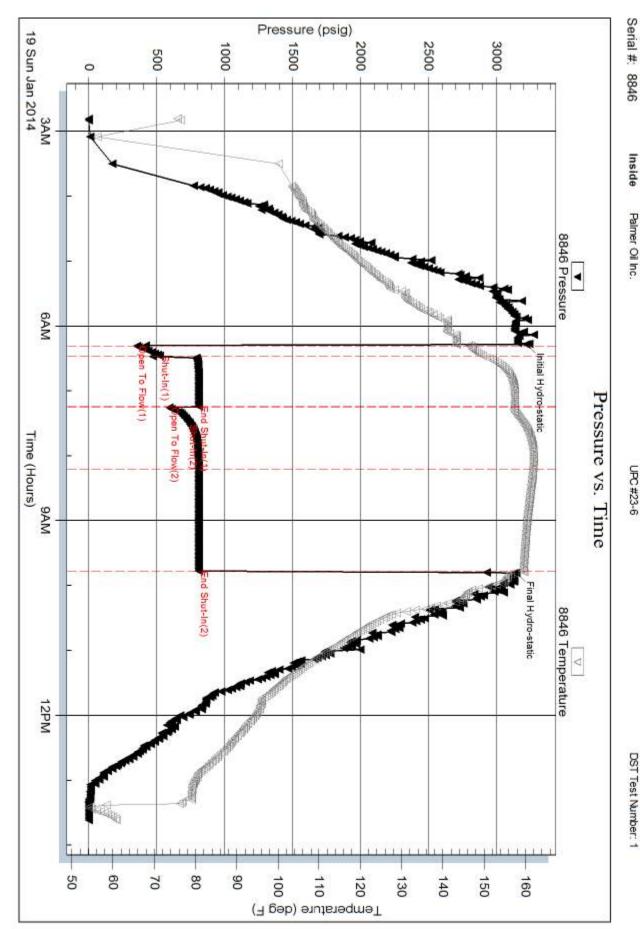
10D T			DRII	LL STE	EM TEST	REPOF	RT	TOOL DIAGRAI		
	RILOE		Palmer	Oil Inc.			23-32s-37w Stevens	s,KS		
	ES1	TING , INC		Cummings			UPC #23-6			
			Garden	City KS 67	'846		Job Ticket: 56735	DST#:1		
<b>N</b> 37			ATTN:	Keith Reav	vis		Test Start: 2014.01.19 @	02:48:15		
Tool Informatio	on		ļ							
Drill Pipe:	Length:	6155.00 ft	Diameter:	3.80	inches Volume:	86.34 bbl	Tool Weight:	2500.00 lb		
Hea∨y Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches Volume:	0.00 bbl	-	: 25000.00 lb		
Drill Collar:	Length:	188.00 ft	Diameter:	2.25	inches Volume:	0.92 bbl	•			
	-	10.00 5			Total Volume:	87.26 bbl	-	20.00 ft		
Drill Pipe Above k		18.00 ft					String Weight: Initial	80000.00 lb		
Depth to Top Pac		6354.00 ft					Final	91000.00 lb		
Depth to Bottom I Interval betw een		ft 46.00 ft								
Tool Length:	Fackers.	40.00 ft								
Number of Packe	ers.	73.00 m	Diameter:	6 75	inches					
		2	Diamotor.	0.75						
Tool Comments:										
	on	Le	ngth (ft)	Serial No	. Position	Depth (ft)	Accum. Lengths			
Tool Descriptio		Le	<b>ngth (ft)</b> 1.00	Serial No	. Position	<b>Depth (ft)</b> 6326.00	Accum. Lengths			
Tool Descriptic		Le	• • •	Serial No	. Position	• • • •	Accum. Lengths			
<b>Tool Descriptio</b> Change Over Sul Shut In Tool		Le	1.00	Serial No	. Position	6326.00	Accum. Lengths			
<b>Tool Descriptic</b> Change Over Sul Shut In Tool Hydraulic tool		Le	1.00 5.00	Serial No	. Position	6326.00 6331.00	Accum. Lengths			
<b>Tool Descriptio</b> Change Over Sul Shut In Tool Hydraulic tool Jars		Le	1.00 5.00 5.00	Serial No	. Position	6326.00 6331.00 6336.00	Accum. Lengths			
<b>Tool Descriptio</b> Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint		Le	1.00 5.00 5.00 5.00	Serial No	. Position	6326.00 6331.00 6336.00 6341.00	Accum. Lengths	Bottom Of Top Packe		
<b>Tool Descriptio</b> Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer		Le	1.00 5.00 5.00 5.00 3.00	Serial No	. Position	6326.00 6331.00 6336.00 6341.00 6344.00		Bottom Of Top Packe		
Tool Description Change Over Sull Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer		Le	1.00 5.00 5.00 5.00 3.00 5.00	Serial No	. Position	6326.00 6331.00 6336.00 6341.00 6344.00 6349.00		Bottom Of Top Packe		
Tool Description Change Over Sull Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb		Le	1.00 5.00 5.00 5.00 3.00 5.00 5.00	Serial No 8846		6326.00 6331.00 6336.00 6341.00 6344.00 6349.00 6354.00		Bottom Of Top Packe		
Tool Description Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder		Le	1.00 5.00 5.00 5.00 3.00 5.00 5.00 1.00		Inside	6326.00 6331.00 6336.00 6341.00 6344.00 6344.00 6354.00 6355.00		Bottom Of Top Packe		
Tool Description Change Over Sull Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder		Le	1.00 5.00 5.00 3.00 5.00 5.00 5.00 1.00 0.00	8846	Inside	6326.00 6331.00 6336.00 6341.00 6344.00 6349.00 6355.00 6355.00		Bottom Of Top Packe		
Tool Description Change Over Sull Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Packer Stubb Recorder Recorder Perforations	b	Le	1.00 5.00 5.00 3.00 5.00 5.00 5.00 1.00 0.00 0.00	8846	Inside	6326.00 6331.00 6336.00 6341.00 6344.00 6349.00 6354.00 6355.00 6355.00 6355.00		Bottom Of Top Packe		
Tool Description Change Over Sull Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sul	b	Le	1.00 5.00 5.00 3.00 5.00 5.00 5.00 1.00 0.00 7.00	8846	Inside	6326.00 6331.00 6336.00 6341.00 6344.00 6349.00 6354.00 6355.00 6355.00 6355.00 6355.00 6355.00		Bottom Of Top Packe		
Tool Description Change Over Sull Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations Change Over Sull Drill Pipe	b	Le	1.00 5.00 5.00 5.00 3.00 5.00 5.00 1.00 0.00 7.00 1.00	8846	Inside	6326.00 6331.00 6336.00 6341.00 6344.00 6349.00 6354.00 6355.00 6355.00 6355.00 6362.00 6362.00		Bottom Of Top Packe		
Tool Comments: Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sul Drill Pipe Change Over Sul Bullnose	b	Le	1.00 5.00 5.00 3.00 5.00 5.00 1.00 0.00 7.00 1.00 31.00	8846	Inside	6326.00 6331.00 6336.00 6341.00 6344.00 6349.00 6354.00 6355.00 6355.00 6355.00 6362.00 6363.00 6363.00	29.00	Bottom Of Top Packe		

DA-		DRI	LL STEM TEST REPOR	Τ	Fl		
11 A	TRILOBITE TESTING , INC	Palmer	Oil Inc.	23-32s-37	w Stevens,KS		
	ESTING , INC		Cummings Rd n City KS 67846	UPC #23-6 Job Ticket: {		DST#: 1	
		ATTN:	Keith Reavis		2014.01.19 @ 02:4	-	
lud and Cu	ushion Information	ļ					
lud Type: G lud Weight: 'iscosity: Vater Loss: lesistivity: alinity: ilter Cake:	el Chem 9.00 lb/gal 50.00 sec/qt 7.18 in <sup>3</sup> 0.00 ohm.m 1600.00 ppm 1.00 inches		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	ft bbl psig	Oil API: Water Salinity:	0 deg API 10000 ppm	
ecovery Ir	nformation						
<b>,</b>			Recovery Table				
	Leng		Description	Volume bbl	]		
		1118.00	mcw 5%m 95%w	13.97	-		
		248.00	w cm 30%w 70%m	3.479			
		310.00 0.00	mud 100%m GIP = 62 ft.	4.34	-		
	Laboratory Nar Recovery Com		Laboratory Location: V= .823@ 54.8*= 10,000 ppm				

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Ref. No: 56735

Trilobite Testing, Inc

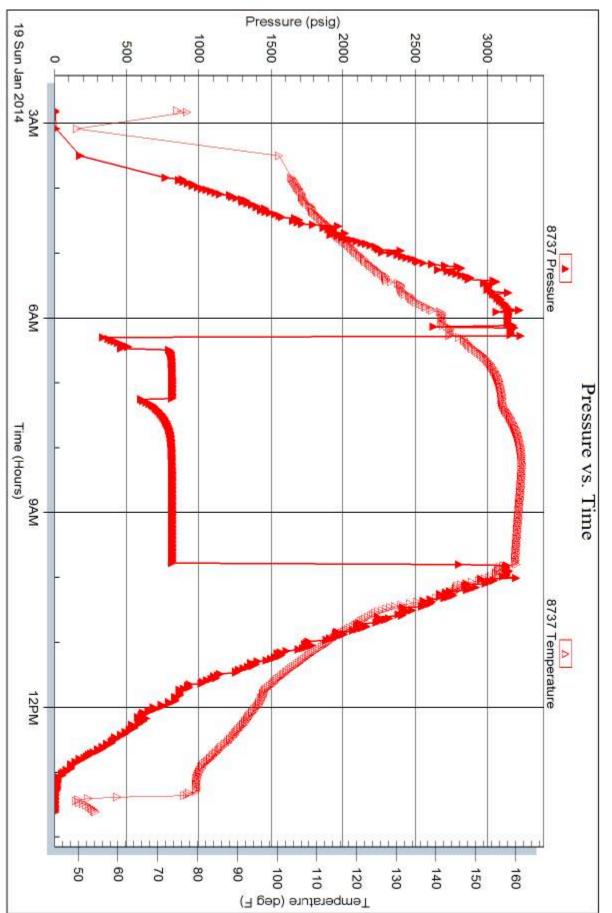


UPC #23-6

Printed: 2014.01.23 @ 15:02:19

Ref. No: 56735

Trilobite Testing, Inc



UPC #23-6

DST Test Number: 1

Serial #: 8737 Outside Palmer Oil Inc.

4/10 RILOBITE ESTING INC. 1515 Commerce Parkway	• Hays, Kansas 67601	<b>Test Ticket</b> NO. 56735
Well Name & No. UPC #23-Le Company Palmer Oil Inc. Address 3118 N. Cummings Co. Rep / Geo. Keith Reasis Location: Sec. 23 Twp. 325	Rig DUK	2#9
Interval Tested <u>6354-6400</u> Anchor Length <u>46</u> Top Packer Depth <u>6350</u> Bottom Packer Depth <u>6354</u> Total Depth <u>6400</u> Blow Description <u>TF: BOB iN</u> <u>TS: NO Refury</u>	Zone Tested St. LOUIS Drill Pipe Run <u>6155</u> Drill Collars Run <u>188</u> Wt. Pipe Run <u>6</u> Chlorides <u>1600</u> ppm : Min	Mud Wt. <u>9, 4</u> Vis <u>50</u> WL <u>7, 2</u>
$\begin{array}{c} FF:BOB in \\ FS:No Return \\ \hline FS:No Return \\ \hline Feet of GIP = 62 f \\ \hline Rec 310 Feet of MUD \\ \hline Rec 248 Feet of WCm \\ \hline Rec 111B Feet of MCW \\ \hline Rec Feet of \\ \hline \end{array}$		%oil%water%mud%oil%water/Oc%mud%oil30%water20%mud%oil95%water5%mud%oil%water%mud%mud
Rec Total       1676       BHT       160         (A) Initial Hydrostatic       3219         (B) First Initial Flow       352         (C) First Final Flow       521         (D) Initial Shut-In       808         (E) Second Initial Flow       593         (F) Second Final Flow       807	Gravity	$\frac{59\%}{2} \text{ F Chlorides } \frac{10,000}{100} \text{ ppm}$ T-On Location $01\%00$ T-Started $02\%98$ T-Open $06\%18$ T-Open $0\%31$ T-Out $13\%32$ Comments
(G) Final Shut-In     808       (H) Final Hydrostatic     3/45       Initial Open     10       Initial Shut-In     45       Final Flow     60       Final Shut-In     90	Sampler Straddle Shale Packer Extra Packer Extra Recorder Day Standby Accessibility Sub Total	Ruined Shale Packer  Ruined Packer  Extra Copies  Sub Total  O  Total  2116  MP/DST Disc't

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

	OPERATOR		
Company: Address: Contact Geologist: Contact Phone Nbr: Well Name: Location: Pool: State:	Palmer Oil, Inc. 3118 N. Cummings Road P.O. Box 399 Garden City, KS 67846 Kevin Wiles 620-275-9231 UPC #23-6 Sec. 23 - T32S - R37W Kansas	API: Field: Country:	15-189-22830-0000 Willis USA
Well Name: Surface Location: Bottom Location: API: License Number: Spud Date: Region: Drilling Completed: Surface Coordinates: Bottom Hole Coordinates: Ground Elevation: K.B. Elevation: Logged Interval:	Scale 1:240 Imperial UPC #23-6 Sec. 23 - T32S - R37W 15-189-22830-0000 34904 1/13/2013 Stevens County 1/20/2013 1600' FSL & 2300' FWL 3112.00ft 3124.00ft 4600.00ft	Time: Time: To:	00:00 20:30 6500.00ft
Total Depth: Formation: Drilling Fluid Type:	6500.00ft Mississippian Chemical/Fresh Water Gel	10.	6500.001
	SURFACE CO-ORDINATI	ES	
Well Type: Longitude: N/S Co-ord: E/W Co-ord:	Vertical 1600' FSL 2300' FWL	Latitude:	
			)
	LOGGED BY		
	Keith Reavis	t	
Company: Address:		ť	
	<b>Keith Reavis</b> Consulting Geologist Keith Reavis, Inc. 3420 22nd Street	£ Name:	Keith Reavis
Address: Phone Nbr:	Keith Reavis Consulting Geologist Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091		Keith Reavis 00:00 20:30
Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date:	Keith Reavis Consulting Geologist Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 KLG #136 CONTRACTOR Duke Drilling Company 9 mud rotary 1/13/2013 1/20/2013	Name: Time: Time:	00:00
Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date:	Keith Reavis Consulting Geologist Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 KLG #136 CONTRACTOR Duke Drilling Company 9 mud rotary 1/13/2013 1/20/2013	Name: Time: Time:	00:00
Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: Rig Release: K.B. Elevation: K.B. to Ground: Drill stem testing, sample examina	Keith Reavis Consulting Geologist Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 KLG #136 CONTRACTOR Duke Drilling Company 9 mud rotary 1/13/2013 1/20/2013 ELEVATIONS 3124.00ft Groun 12.00ft NOTES ation and electrical log analysis indi	Name: Time: Time: Time: nd Elevation:	00:00 20:30
Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: Rig Release: K.B. Elevation: K.B. to Ground: Drill stem testing, sample examina 6, however, the operator elected to A Bloodhound gas detection system ROP and gas data was imported for	Keith Reavis, Inc.         3420 22nd Street         Great Bend, KS 67530         620-617-4091         KLG #136         CONTRACTOR         Duke Drilling Company         9         mud rotary         1/13/2013         1/20/2013         ELEVATIONS         3124.00ft         I2.00ft         NOTES         ation and electrical log analysis indice         or run 5 1/2" casing and utilize this or         Im operated by Bluestem Environmm         rom said system into this report. Gal log tops were generally from 3-5	Name: Time: Time: Time: nd Elevation: icated no com well for saltwat eental was emp amma ray and	00:00 20:30 3112.00ft mercial hydrocarbons in the UPC #23-

# Palmer Oil, Inc.

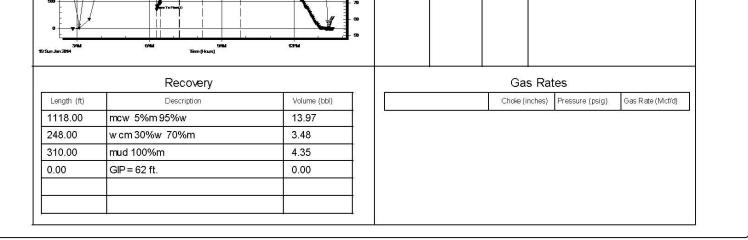
# daily drilling report

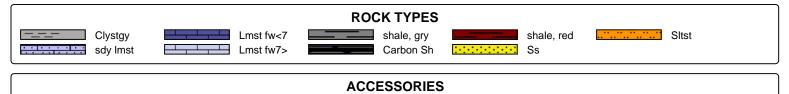
DATE	7:00 AM DEPTH	REMARKS
01/17/2014	4912	Geologist Keith Reavis on location @ 1100 hrs, 5230 ft, drilling ahead Cherokee, short trip at 5455 ft., resume drilling 2115 hrs
01/18/2014	5961	drilling ahead, Morrow, bit trip @ 6100', out with PDC in with button, resume drilling @ 1800 hrs, Morrow, Chester
01/19/2014	6221	drilling ahead, Chester, St. Gen, St. Louis, show and gas kick warrant DST, cfs/ctch, TOH w/bit for DST #1
01/20/2014	6400	Tripping bit and tools, conduct DST #1, complete DST #1, successful test, TIH w/PDC bit, rathole to TD 6500 ft, ctch, TOH for logs
01/21/2014	6500	TOH for logs, conduct logging operations, geologist off location 0600 hrs

# Palmer Oil, Inc. well comparison sheet

		DRILLING N	WELL	0		COMPARIS	ON WELL			COMPARIS	SON WELL	
		Palmer - U	JPC #23-6	6	EOG - UPC #23-1				Palmer - UPC #23-4			
	16	500' FSL &	2300' F	WL	2310' FSL & 1830' FWL				900' FSL & 2120' FWL			
	s	ec. 23 -T3	25 - R3	7₩	Sec. 23 -T325 - R37W				Sec. 23 -T325 - R37W			
							Struct	ural			Struct	tural
	3124 KB				3133	B KB	Relatio	onship	3126	KB	Relati	onship
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Base Heebner	4143	-1019	4147	-1023	4150	-1017	-2	-6	4142	-1016	-3	-7
Lansing	4263	-1139	4268	-1144	4271	-1138	-1	-6	4264	-1138	-1	-6
Marmaton	4932	-1808	4932	-1808	4940	-1807	-1	-1	4924	-1798	-10	-10
Cherokee	5120	-1996	5125	-2001	5126	-1993	-3	-8	5120	-1994	-2	-7
Morrow	5632	-2508	5635	-2511	5630	-2497	-11	-14	5635	-2509	1	-2
Morrow LS mark	5928	-2804	5931	-2807	5932	-2799	-5	-8	5936	-2810	6	3
St. Gen	6213	-3089	6214	-3090	6216	-3083	-6	-7	6218	-3092	3	2
St. Louis	6306	-3182	6304	-3180	6304	-3171	-11	-9	6304	-3178	-4	-2
St. Louis B	6359	-3235	6368	-3244	6367	-3234	-1	-10	6366	-3240	5	-4
Total Depth	6500	-3376	6496	-3372	6499	-3366	-10	-6	6502	-3376	0	4

RILOBITE	Palmer Oil Inc.			23-	-32s-37w	Stevens	Co.KS
ESTING , INC	3118 N Cummings Rd	UP	PC 23-6				
教育	Garden City KS 67846			Job	Ticket: 56	5735	DST#:1
Nov .	ATTN: Keith Reavis			Tes	at Start: 20	)14.01.19 @	02:48:15
GENERAL INFORMATION:							
Formation: St. Louis							
Deviated: No Whipstock:	ft (KB)						al Bottom Hole (Initial)
Гime Tool Opened: 06:18:00 Гime Test Ended: 13:37:30						Mike Robert 65	s
nterval: 6354.00 ft (KB) To 64 Fotal Depth: 6400.00 ft (KB) (T\				Ref	erence ⊟e	evations:	3124.00 ft (KB)
Fotal Depth: 6400.00 ft (KB) (T Hole Diameter: 7.88 inchesHole	and second se				KBt	o GR/CF:	3112.00 ft (CF) 12.00 ft
Serial #: 8846 Inside							
Press@RunDepth: 807.19 psig	MAD AND AND A REAL PROPERTY AND A REAL PROPERT			Capacity			8000.00 psig
Start Date: 2014.01.19	End Date:						
		3	2014.01.19	Last Cali			2014.01.20
Start Time: 02:48:15	End Time:	0	2014.01.19 13:37:30	Time On	Btm: 2		@ 06:16:45
					Btm: 2		
Start Time: 02:48:15 TEST COMMENT: IF:BOB in 1 min.	End Time:			Time On	Btm: 2		@ 06:16:45
Start Time: 02:48:15 TEST COMMENT: IF:BOB in 1 min. IS:No return blow	End Time:			Time On	Btm: 2		@ 06:16:45
Start Time: 02:48:15 TEST COMMENT: IF:BOB in 1 min.	End Time:			Time On	Btm: 2		@ 06:16:45
Start Time: 02:48:15 TEST COMMENT: IF:BOB in 1 min. IS:No return blow FF:BOB in 2 min.	End Time:			Time On	Btm: 2		@ 06:16:45
Start Time: 02:48:15 TEST COMMENT: IF:BOB in 1 min. IS:No return blow FF:BOB in 2 min. FS:No retrurn blo Pressure vs. T	End Time:			Time On Time Off	Btm: 2 Btm: 2		@ 06:16:45 @ 09:48:15
Start Time: 02:48:15 TEST COMMENT: IF:BOB in 1 min. IS:No return blow FF:BOB in 2 min. FS:No retrurn blow	End Time:		13:37:30	Time On Time Off PI Pressure	Btm: 2 Btm: 2 RESSUF	2014.01.19	@ 06:16:45 @ 09:48:15 IARY
Start Time: 02:48:15 TEST COMMENT: IF:BOB in 1 min. IS:No return blow FF:BOB in 2 min. FS:No retrurn blo	End Time:		13:37:30 Time (Min.)	Time On Time Off Pl Pressure (psig)	Btm: 2 Btm: 2 RESSUF Temp (deg F)	2014.01.19 RE SUMM Annotatio	@ 06:16:45 @ 09:48:15 IARY on
Start Time: 02:48:15 TEST COMMENT: IF:BOB in 1 min. IS:No return blow FF:BOB in 2 min. FS:No retrurn blow Pressure vs. T	End Time:		13:37:30 Time (Min.) 0	Time On Time Off Plessure (psig) 3219.73	Btm: 2 Btm: 2 RESSUR Temp (deg F) 143.29	2014.01.19 RE SUMM Annotatio Initial Hydr	@ 06:16:45 @ 09:48:15 IARY on
Start Time: 02:48:15 TEST COMMENT: IF:BOB in 1 min. IS:No return blow FF:BOB in 2 min. FS:No retrurn blow Pressure vs. T	End Time:		13:37:30 Time (Min.) 0 2	Time On Time Off Plessure (psig) 3219.73 352.85	Btm: 2 Btm: 2 RESSUR Temp (deg F) 143.29 146.69	2014.01.19 RE SUMM Annotatio Initial Hydr Open To F	@ 06:16:45 @ 09:48:15 IARY on ro-static Flow (1)
Start Time: 02:48:15 TEST COMMENT: IF:BOB in 1 min. IS:No return blow FF:BOB in 2 min. FS:No retrurn blow Pressure vs. T	End Time:	103	13:37:30 Time (Min.) 0	Time On Time Off Plessure (psig) 3219.73	Btm: 2 Btm: 2 RESSUR Temp (deg F) 143.29	E SUMM Annotatic Initial Hydr Open To F Shut-In(1)	@ 06:16:45 @ 09:48:15 IARY on Fo-static Flow (1)
Start Time: 02:48:15 TEST COMMENT: IF:BOB in 1 min. IS:No return blow FF:BOB in 2 min. FS:No retrurn blow Pressure vs. T	End Time:		13:37:30 Time (Min.) 0 2 11	Time On Time Off Plessure (psig) 3219.73 352.85 521.86	Btm: 2 Btm: 2 RESSUR Temp (deg F) 143.29 146.69 149.72	E SUMM Annotatic Initial Hydr Open To F Shut-In(1) End Shut-I	@ 06:16:45 @ 09:48:15 IARY on ro-static Flow (1) h(1)
Start Time: 02:48:15 TEST COMMENT: IF:BOB in 1 min. IS:No return blow FF:BOB in 2 min. FS:No retrurn blov	End Time:	103	13:37:30 Time (Min.) 0 2 11 58	Time On Time Off Pl Pressure (psig) 3219.73 352.85 521.86 808.54	Btm: 2 Btm: 2 RESSUR Temp (deg F) 143.29 146.69 149.72 157.39	E SUMM Annotatio Initial Hydr Open To F Shut-In(1) End Shut- Open To F Shut-In(2)	@ 06:16:45 @ 09:48:15 IARY on ro-static Flow (1) In(1) Flow (2)







- Argillaceous
   ⊥ Calcareous
- ▲ Chert, dark
   ✓ Dolomitic

- ➢ Mineral Crystals
  ➢ Pyrite
  ∴ Sandy
  △ Chert White

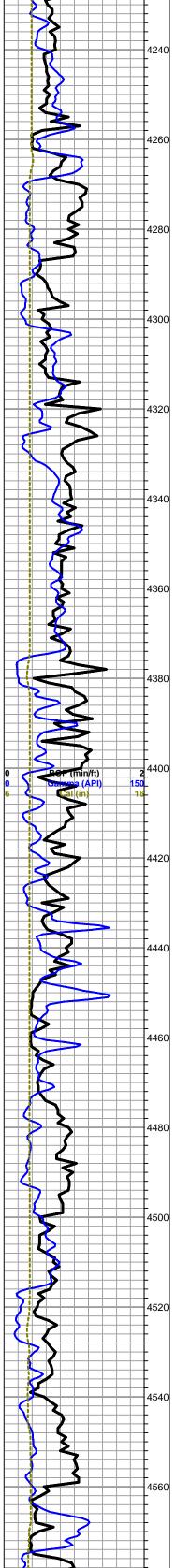
## FOSSIL

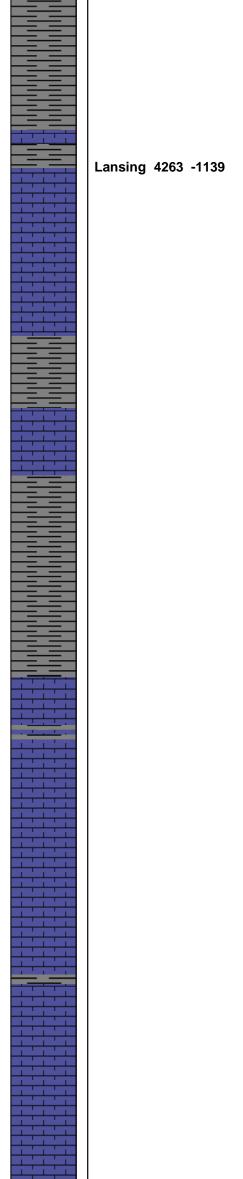
- Bioclastic or Fragmental
   F Fossils < 20%</li>
- ♦ Oolite
   Ø Pellets
- \land Oomoldic
- STRINGER
- Dolomite
- Limestone

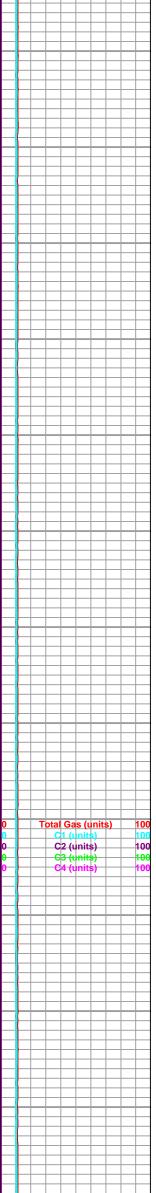
## ----- Shale

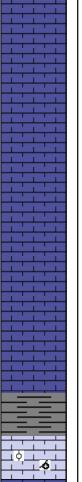
TEXTURE C Chalky

				OTHER SYMBOLS								
Oil Show Good Show Fair Show Poor Show Spotted or Trace Questionable Stn Dead Oil Stn Fluorescence * Gas	DST In DST In DST al Core II tail pipe	t										
				Printed by GEOstrip VC Stripl	og v	ersi	ion 4	1.0.7	<u>′.0 (v</u>	ww.	.grsi	i.ca)
Curve Track #1 ROP (min/ft) Gamma (API) Cal (in)	rval Depth   Intervals /al CD	Lithology	Oil Show	Geological Descriptions	C1 C2 C3	otal ( 1 (ur 2 (ur 3 (ur 4 (ur	Gas ( nits) nits) nits)		C1 - ( ;)	25		
1:240 Imperial           0         ROP (min/ft)         2           0         Gamma (API)         150           6         Cal (in)         16	Cored Interval DST Interval				0		1: Tot	:240 : <b>al G</b>	Imper as (u	rial nits)		100
0 Garlima (API) 15( 6 Cal (in) 16	4060			geologist Keith Reavis on location @ 5230 ft 1100 hrs - 1/17/14	0 0 0			C1 ( C2 ( C3 ( C4 (	(units (units (units (units	) ) ) )		100 100 100 100
	4080											
	4100											
	4120											
	4160			Base Heebner 4143 -1019								
	4180											
0 POP (min/ft) 2 0 Comma (API) 15( 6 Comma (API) 15(					0 0 0 0 0 0			C2 (	as (u units units units units	<b>.</b>		100 100 100 100 100
	4220											



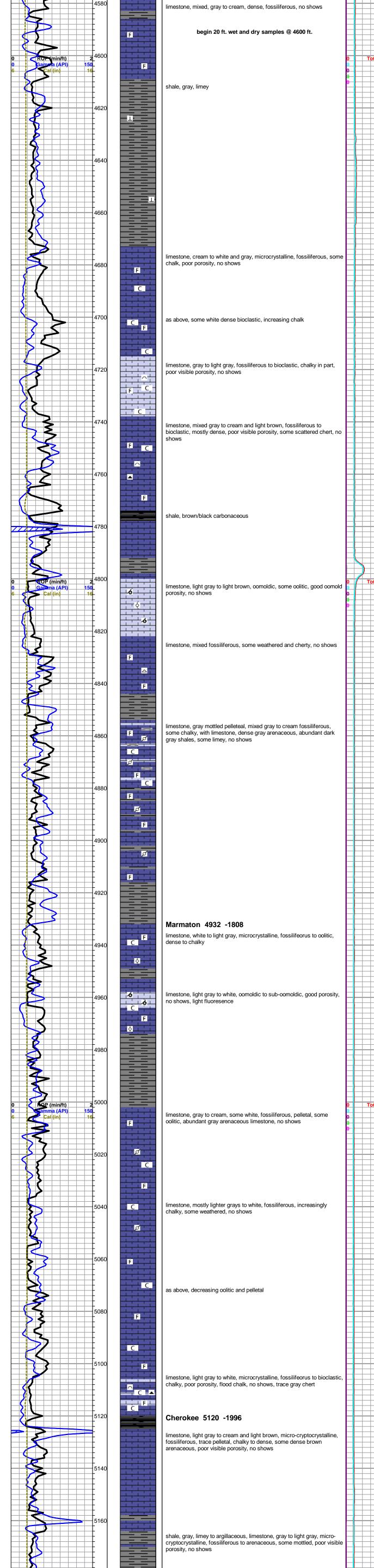




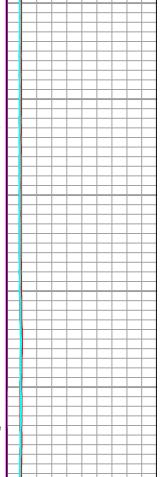


limestone, light gray to cream, oolitic to oomoldic, some good porosity, barren

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am, dense, fossiliferous, no shows									
t and dry samples @ 4600 ft.						-	-	$\left  \right $	
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	0					Init			10
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d gray, microcrystalline, fossiliferous, some									
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bioclastic, increasing chalk								$\square$	
bioclastic, increasing chain									
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fossiliferous to bioclastic, chalky in part,									
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am and light brown, fossiliferous to								$\square$	
r visible porosity, some scattered chert, no									
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rown, oomoldic, some oolitic, good oomold	0			С	1 (1	nit	<u>\$)</u>	F	10
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s. some weathered and cherty. no shows									



Total Gas (units)

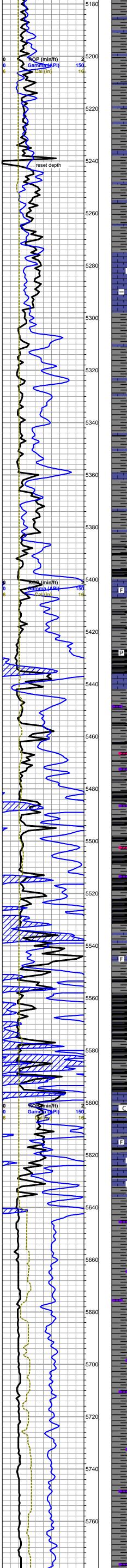
C2 (units)

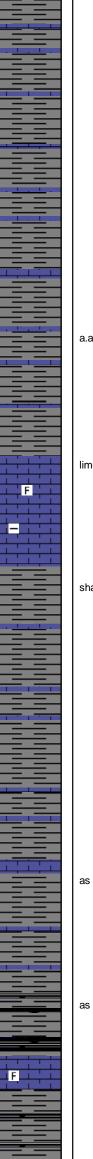
C3 (units) C4 (units)

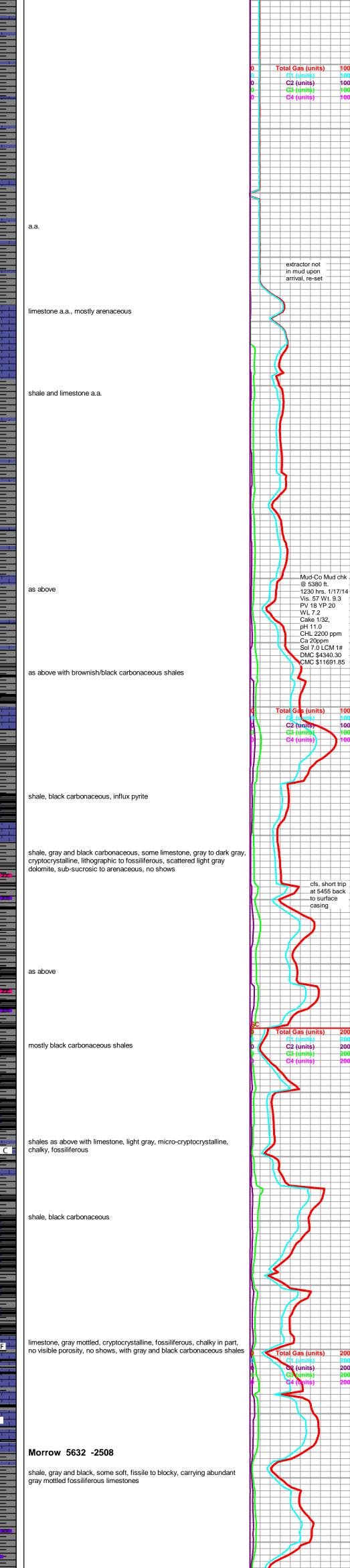
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100 H







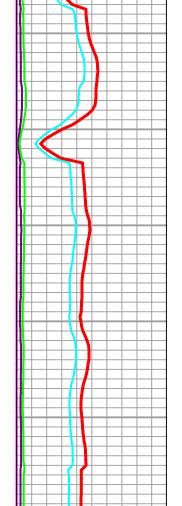
as above

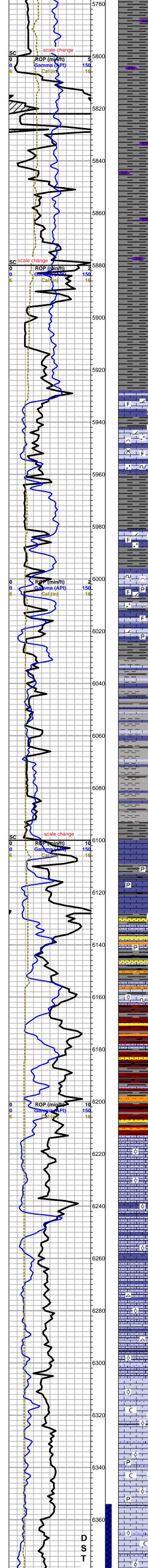
F

C

F

as above





as above

5940 sample, limestones mostly fall out, shales, gray to black, very soft, heavy gray wash in samples

## Middle Morrow LS Marker 5928 -2804

dolomitic limestone, light gray to tan, micro to fine crystalline, fossilifeorus to bioclastic, large clasts, some sand grains and quartz crystals with larger dolomite cyrstals, pyritic to glauconitic, poor visible porosity, no odor or shows, no fluoresence

dolomitic limestone, similar to above, chalkier, less sandy and glauconitic, abundant pyrite nodules, poor visible porosity, no odor, no shows or fluoresence

P

F

