

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs 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 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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	James P. Williams Enterprises, Inc.
Well Name	PALMBERG 1
Doc ID	1411310

All Electric Logs Run

Dual Induction Log
Compensated Density Neutron Log
Cement Bond Log
Micro Resistivity Log
Computer Generated Interpretation Log

Form	ACO1 - Well Completion
Operator	James P. Williams Enterprises, Inc.
Well Name	PALMBERG 1
Doc ID	1411310

Tops

Name	Top	Datum
Anhydrite	1480	+642
Base of Anhydrite	1517	+605
Topeka	3100	-978
Heebner Shale	3320	-1198
Toronto	3338	-1216
Lansing	3358	-1236
Base Kansas City	3575	-1453
Simpson Sand	3658	-1536
Arbuckle	3674	-1552
RTD	3700	-1579
TD	3696	-1574

Form	ACO1 - Well Completion
Operator	James P. Williams Enterprises, Inc.
Well Name	PALMBERG 1
Doc ID	1411310

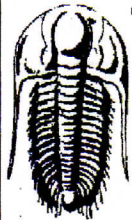
Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
20	3401	3406			250 gals 20% MCA at 3549'-3555'
8	3415	3417			250 gals 20% MCA at 3532'-3536'
8	3441	3443			250 gals 20% MCA at 3511'-3516'
20	3511	3516			250 gals 20% MCA at 3441'-3443'
16	3532	3536			250 gals 20% MCA at 3415'-3417'
24	3549	3555			250 gals 20% MCA at 3401'-3406'
					500 gals 28% NE w/DMO at 3549'-3555'
					500 gals 20% Gelled acid at 3511'-3516'
					500 gals 20% Gelled Acid at 3532'-3536'
					500 gals 20% Gelled Acid at 3549'-3555'

Form	ACO1 - Well Completion
Operator	James P. Williams Enterprises, Inc.
Well Name	PALMBERG 1
Doc ID	1411310

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
					500 gals 28% NE w/DMO at 3441'-3443'
					500 gals 28% NE w/DMO at 3415'-3417'
					500 gals 28% NE w/DMO at 3441'-3443'
					500 gals 28% NE w/DMO at 3401'-3406'



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

James P. Williams Enterprises, Inc.

33-10S-19W Rooks, KS

PO Box 226
802 Main St.
Palco, KS 67657
ATTN: Randy Kilian

Palmberg #1

Job Ticket: 63429

DST#: 1

Test Start: 2018.04.23 @ 17:24:39

GENERAL INFORMATION:

Formation: **LKC "C&D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:24:39
 Time Test Ended: 03:15:09
 Interval: **3380.00 ft (KB) To 3425.00 ft (KB) (TVD)**
 Total Depth: 3425.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2122.00 ft (KB)
 2114.00 ft (CF)
 KB to GR/CF: 8.00 ft

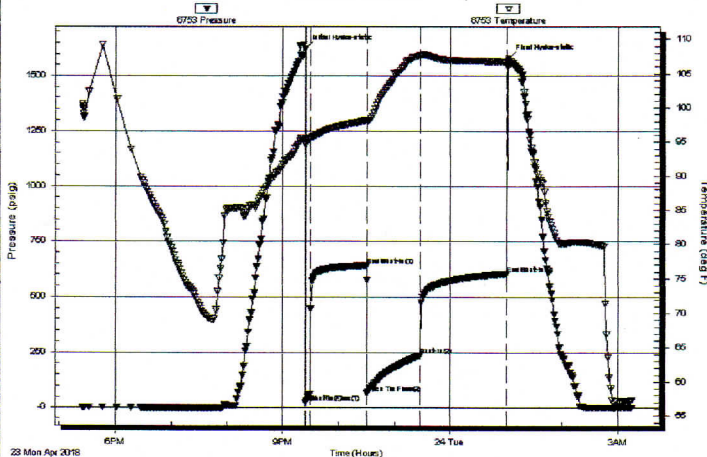
Serial #: 6753

Outside

Press@RunDepth: 237.18 psig @ 3388.00 ft (KB)
 Start Date: 2018.04.23 End Date: 2018.04.24
 Start Time: 17:24:39 End Time: 03:15:09
 Capacity: 8000.00 psig
 Last Calib.: 2018.04.24
 Time On Btm: 2018.04.23 @ 21:24:09
 Time Off Btm: 2018.04.24 @ 01:02:09

TEST COMMENT: 05- IF- Slowly built to 5"
 60- IS- No blow
 60- FF- BOB 18mins
 90- FS- No blow

Pressure vs. Time



PRESSURE SUMMARY

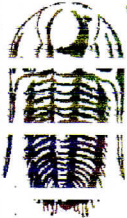
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1623.91	95.53	Initial Hydro-static
1	24.08	94.55	Open To Flow (1)
6	60.33	95.44	Shut-In(1)
66	639.16	98.20	End Shut-In(1)
67	66.27	98.10	Open To Flow (2)
123	237.18	107.63	Shut-In(2)
217	603.09	106.75	End Shut-In(2)
218	1582.54	106.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW, 20%M 80%W	0.91
250.00	SOCMW, 5%O 25%M 70%W	2.27
80.00	WOCM, 15%W 10%O 75%M	1.13
15.00	CO	0.21

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

PO Box 226
802 Main St.
Palco, KS 67657
Allen Kariy Kariy

33 100 10W Road, KS

Palmera #1

Job Ticket: 63430

DST#: 2

Test Start: 2018.04.24 @ 09:24:40

Formation: **LKC "F"**
Deviated: No Whipstock: ft (KB)
Time Test Started: 11:57:10
Time Test Ended: 17:54:10

Test Type: Conventional Bottom Hole (Reset)
Unit No: 73

Interval: **3424.00 ft (KB) To 3445.00 ft (KB) (TVD)**
Total Depth: 3445.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2122.00 ft (KB)
3414.00 ft (KB)
KB to GR/CF: 8.00 ft

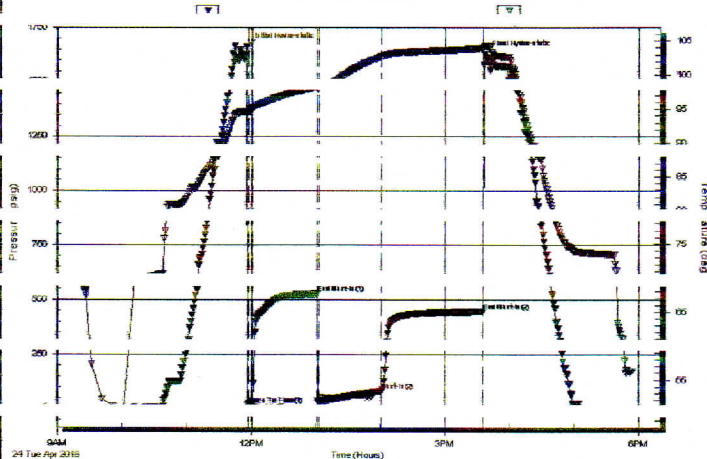
Serial #: 6753 Outside

Start Date: 2018.04.24 End Date: 2018.04.24
Start Time: 09:24:40 End Time: 17:54:10

Capacity: 5000.00 psig
Last Calib.: 2018.04.24
Time On Btm: 2018.04.24 @ 11:56:10
Time Off Btm: 2018.04.24 @ 15:37:10

TEST COMMENT: 05- IF- Slowly built to 1"
60- IS- No blow
60- EF- ROR 31 mins
90- FS- No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
1	20.57	94.52	Open To Flow (1)
66	527.45	98.32	End Shut-In(1)
67	35.06	98.40	Open To Flow (2)
125	82.71	102.74	Shut-In(2)
219	446.45	103.96	End Shut-In(2)
221	1628.53	104.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	MCO, 15%M 85%O	0.68
0.00	93' GIP	0.00

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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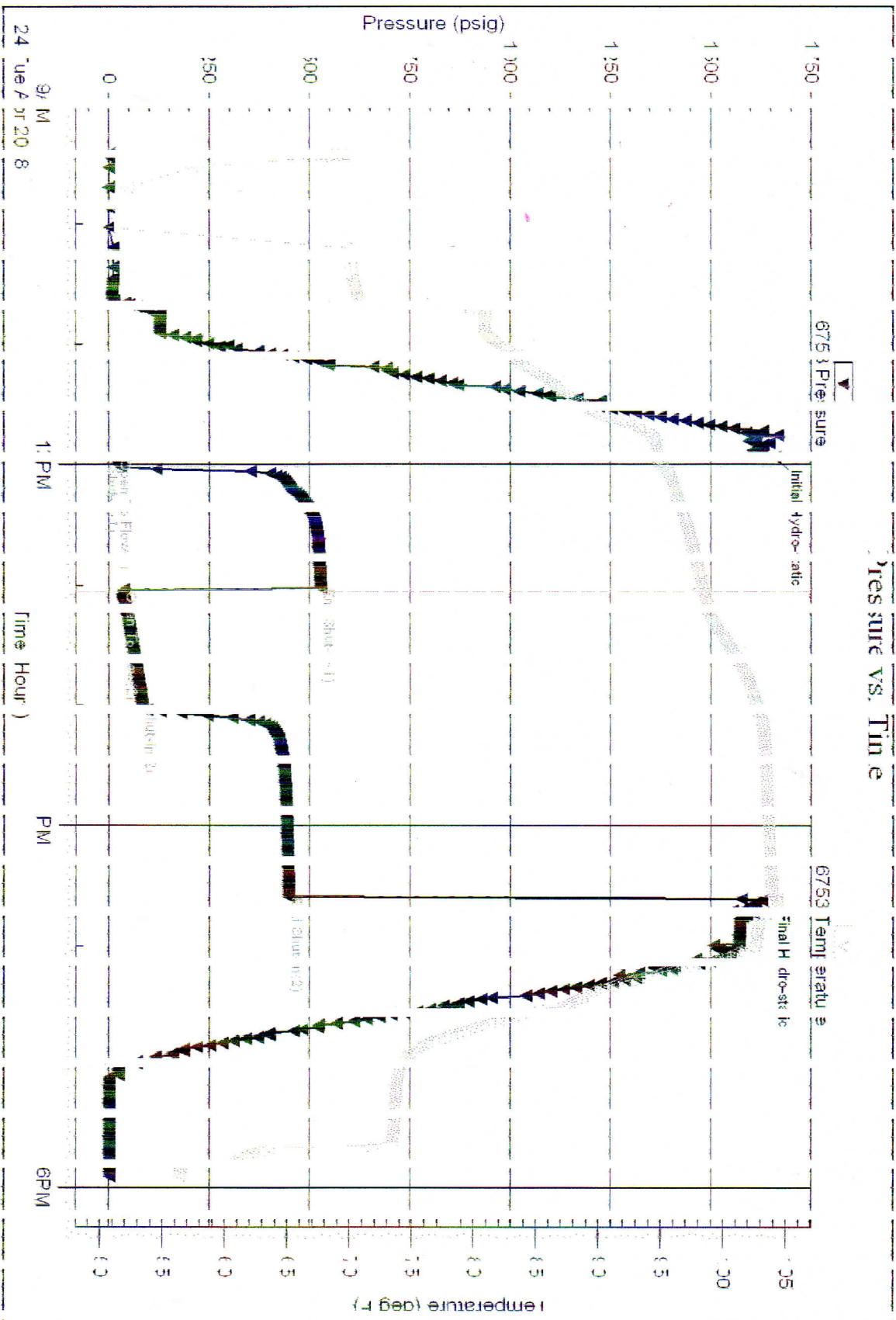
Serial # 6 53

Operator James P. William Enterprises, Inc.

Well name g#1

DST Test Number:

Pressure vs. Time



Trickett Test g. Inc

Ref. No: 3430

Printed: 01/09/24 @ 8:07:03

**James P. Williams Enterprises, Inc.
PO Box 226 802 Main Street
Palco, Kansas 67651
479-461-6553**

June 5, 2018

Kansas Corporation Commission
Conservation Division
266 N Main Street, Suite 220
Wichita, Kansas 67202-1513

Attention: Well Completion – Form ACO-1

RE: James P. Williams Enterprises, Inc., License #35220
Palmberg #1 – API #15-163-24358-0000
NW SE NE SW of S33-T10S-R19W of Rooks County, Kansas
Confidentiality Request

Dear Kansas Corporation Commission,

I am writing to request that the above referenced well, Palmberg #1, Well completion (ACO-1) and records be kept Confidential for a Period of two (2) years as allowed by written request.

Thank you for your time concerning this matter, and have a nice day.

Sincerely,



Connie Jo Austin
Agent for James P. Williams Enterprises, Inc.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 801

Date	4-18-19	Sec.	33	Twp.	10	Range	19	County	Rooks	State	KS	On Location		Finish	8:15 PM
Location								Yocemento N CO Line 1/2 W N into							

Lease	Palmbog	Well No.	1	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	Discovery #2			Charge To	James P. Williams Enterprises
Type Job	Surface	Hole Size	17 1/4	T.D.	221 set at
Csg.	8 5/8	Depth	228	Street	
Tbg. Size		Depth		City	State
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	10	Shoe Joint		Cement Amount Ordered	150 80/100 3 1/4 2 1/2 6 1/2
Meas Line		Displace	13.3 CL		

EQUIPMENT

Pumptrk	20	No.	Cement Helper Craig	Common	120
Bulktrk		No.	Driver Brett	Poz. Mix	30
Bulktrk	15	No.	Driver Jordan	Gel.	3
				Calcium	6

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
8 5/8 on bottom. Est Circulation	Sand
M. x 150 SIC + Displace.	Handling 159
	Mileage

FLOAT EQUIPMENT

Cement	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge Surface
	Mileage 26
	Tax
	Discount
	Total Charge

X Signature *Cliff Mayfield*

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 807

Date	4-26-18	Sec.	33	Twp.	10	Range	19	County	Rock	State	KS	On Location		Finish	3:45 AM
Lease								Well No.		Owner					
Palmborg								1		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Contractor		Discovery #1		5 1/2" set at		3652'		Charge To							
Type Job		DU Job		T.D.		3700		James P. Williams Enterprises							
Hole Size		7 7/8		Depth		3696 TD		Street							
Csg.		5 1/2 17#		Depth				City							
Tbg. Size				Depth				State							
Tool		DU Tool #42		Depth		2100 (2100) 2125		The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.		22		Shoe Joint		22		Cement Amount Ordered 1500lb 10/1 Salt 5/Ceil/son/4e							
Meas Line		Displace		85 1/4 BCL		500 gal med clear		Common 150							
EQUIPMENT															
Pumptrk		No.		Cement		Helper		Poz. Mix							
20				Craig											
Bulktrk		No.		Driver				Gel.							
15				Brett											
Bulktrk		No.		Driver				Calcium							
13				Jordan											
				Driver				Hulls							
				SOEL				Salt 13							
JOB SERVICES & REMARKS															
Remarks:								Flowseal							
Rat Hole								Kol-Seal 750#							
Mouse Hole								Mud CLR 48 500 gal							
Centralizers								CFL-117 or CD110 CAF 38							
Baskets								Sand							
DV or Port Collar								Handling 170							
5 1/2 set @ 3696 BCL @ 3674.								Mileage							
Est. Circulation - Pump 500 gal med clear.								FLOAT EQUIPMENT							
Cement 5 1/2 with 1500 lb clear								Guide Shoe							
lines & Displace Plug - Displace with								Centralizer 10							
45 BCL water 36 BCL med + 4 BCL water to								Baskets 4							
land plug.								AFI Inserts DU Tool							
Plug landed @ 1500'								Float Shoe 1							
Drop Dart & open DU Tool.								Latch Down 1							
Circ. 30 min.															
								Pumptrk Charge Bottom Stage							
								Mileage 26 Prod String							
								Tax							
								Discount							
								Total Charge							
Signature															

X Signature

J.P. Will

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 808

Date	4-26-18	Sec.	33	Twp.	10	Range	19	County	Rock	State	KS	On Location		Finish	5:00 AM
Lease								Palmerberg		Well No.		1			
Contractor								Discovery #1		Owner		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job								DU Job		Charge To		James P. Williams Enterprises			
Hole Size								7 7/8		T.D.		3200			
Csg.								5 1/2 17#		Depth		3696			
Tbg. Size										Street					
Tool								D/I Tool		City		State			
Cement Left in Csg.										Depth		(2100) 2125 <small>set at</small>			
Meas Line								Displace		Cement Amount Ordered		380 8 1/2 QMDC 1/4# H ₂ O			
EQUIPMENT								Common		380 8 1/2 QMDC					
Pumptrk								20		Poz. Mix					
Bulktrk										Gel.					
Bulktrk								13		Calcium					
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								30SK		Flowseal		100#			
Mouse Hole								15SK		Kol-Seal					
Centralizers										Mud CLR 48					
Baskets										CFL-117 or CD110 CAF 38					
D/V or Port Collar										Sand					
Plug Rathole mousehole								Handling		380					
Cement 5 1/2 with 335SK								Mileage							
Clear lines & Displace Plug.										FLOAT EQUIPMENT					
Cement Circulated!								Guide Shoe							
Plug landed @ 1500#								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge		prod string Top stage					
								Mileage		26					
Signature								Tax							
								Discount							
								Total Charge							

Randall Kilian Corporation

Geologist



**Certified Petroleum
Geologist #3351
License #224**

3951 Eveningglow Way
Castle Rock, CO 80104

Phone: 720-733-0420

Cell: 785-635-1349

E-mail: rkgeo53@hotmail.com

Corrections

GEOLOGIST'S WELL REPORT

COMPANY JAMES P WILLIAMS ENTERPRISES, INC. (35220)

WELL Palmberg #1

FIELD Palmberg

LOCATION (legal) NW SE NE SW

(footages) 1745' FSL & 2259' FWL

Section 33 TWP 10S RGE 19W

(Map) _____

COUNTY Rooks STATE Kansas

ELEVATION: 2122' K.B., 2114' G.L.

Depths measured from Kelly Bushing

A. P. I. NUMBER 15-163-24358

GEOLOGY BY Randall Kilian

PERTINENT WELL DATA

CONTRACTOR Discovery Drilling (31548)

RIG #1 HYDRAULICS D-375 6x14x60
(Cliff Mayfield TP)

DRILL PIPE 4 1/2" X-H COLLARS 6 x 2 1/4" 12 (415')

CASING: SURFACE 8 5/8" @ 221', w/ 150 sx 80/20 Po
3652' - 5 1/2" set

PRODUCTION 5 1/2" @ 3696' TP w/ 150 sx Common

DRILLING FLUID. COMPANY DV @ 2125' w/ 305 sx QM (380 sacks cement as per Jan)
Andy's Mud & Chemical Co. (Aaron Blew)

TYPE: Chemical-Drispac

REMARKS: Full service

DRILL STEM TESTS: COMPANY Trilobite Testing Inc. (Brannon Lonsdale)

NUMBER OF TESTS Two (2)

ELECTIC LOGS: COMPANY Gemini Wireline LLC

DETAIL (5") 3000' - RTD

TYPE DI, Comp N-D, Micro

DRILLING TIME FROM 3000' TO RTD

SAMPLE TIME FROM 3000' TO RTD

SUPERVISION FROM 3000' TO RTD

VERTICAL DEVIATION 1/2° @ 221', 3/4° @ 3220',

PLUGGING REPORT 30 sx Rat, 15 sx Mouse

RESERVE PIT 600 bbls., Chl. 44,000 Ca. 340

DAILY REPORT

DATE:	7 a.m.	Depth	RIG ACTIVITY
4-19-18			MIRU, Spud
4-20-18		477'	Drilling under surface
4-21-18		2086'	Drilling sand & shale
4-22-18		2800'	Drilling lime & shale
4-23-18		3300'	Drilling Topeka lime
4-24-18		3445'	DST #2 LKc F
4-25-18		3625'	Drilling shale & lime
4-26-18		3700'	TD, Logged, Casing set

TD 3696' as per James 6-5-18 cp

DRILL STEM TESTS

NO	INTERVAL	IFP/TIME	ISIP/TIME	FEP/TIME	FSIP/TIME	IHP/FHP	RECOVERY
1	LCG C-D 3380- 3425'	24# 60# 5"	639# 60"	66# 237# 60"	603# 90"	1624# 1583#	15' Oil 80' WOODMud 10% 250' SLOOMMtr. 5% 125' MWTR.
2	LCG F 3424- 3445'	21# 30# 5"	527# 60"	35# R3# 60"	446# 90"	1661# 1629#	93' GTP 93' M, Oil 85% oil 62' O, G, Mud 10%
3							
4							
5							
6							
7							
8							

MUD RECORD

CHK	DEPTH	WT	VIS	FIL	CHL	YP
1	2919'					
2	2949'	8.6	55	7.2	1.5k	15
3	3200'	8.7	60			
4	3290'	8.6	58			
5	3333'	8.6	52	7.6	5k	14
6	3445'	8.8	47	7.6	6.5k	11
7	3675'	9.1	54	7.6	8k	14
8						
9						
10						
11						

Displaced
LCM 3 1/2#

LCM 4#
LCM 3 1/2#
LCM 2 1/2#
LCM 3# \$7056

BIT RECORD

NO	SIZE	MAKE	TYPE	DEPTH/OUT	FEET	HOURS
1	12 1/4"	JZ	CTZ	221'	221'	2 3/4
2	7 7/8"	HTCo	GX20C	3220'	2999'	48 3/4
3	7 7/8"	HTCo	GX20C	3700'	480'	24 3/4
4						
5						
6						

OGY

SUMMARY

The Palmberg #1 well was drilled with Discovery tools rig #1 beginning April 19, 2018 and drill completed April 26, 2018.

The drill site is located 125' NW of the original MARTIN & KELLER Palmberg #1 well drilled in April. The abandoned LKc D zone well produced nearly 5

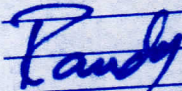
Several 3-D seismic locations were drilled near negative results.

Structurally, the well ran flat to 1' high to the producer. DST #2 LKc F was a positive test. Oil were encountered in numerous zones.

Based upon all data, production casing was set and cemented to further test and produce the well.

Recommended perfs; LKc K 3550-56', J 3530-40', I 3511-16', F 3441-42', D 3415-16', C 340

Respectfully,



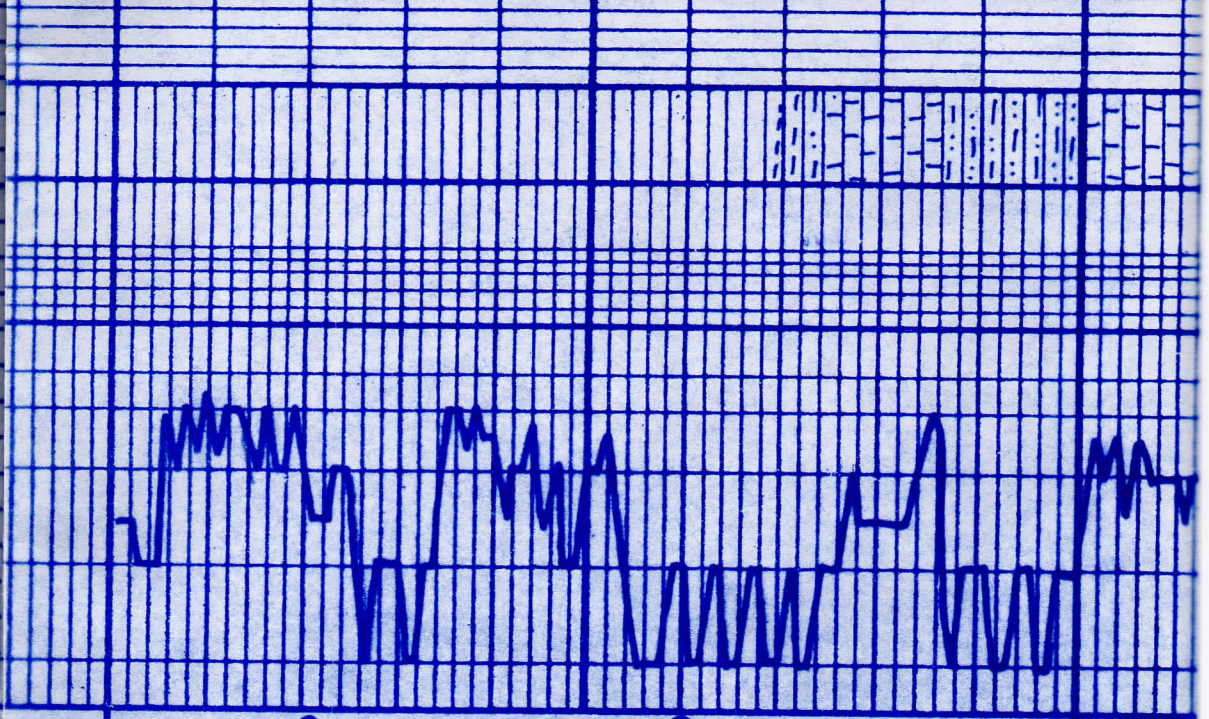
Randall Kilian

well.

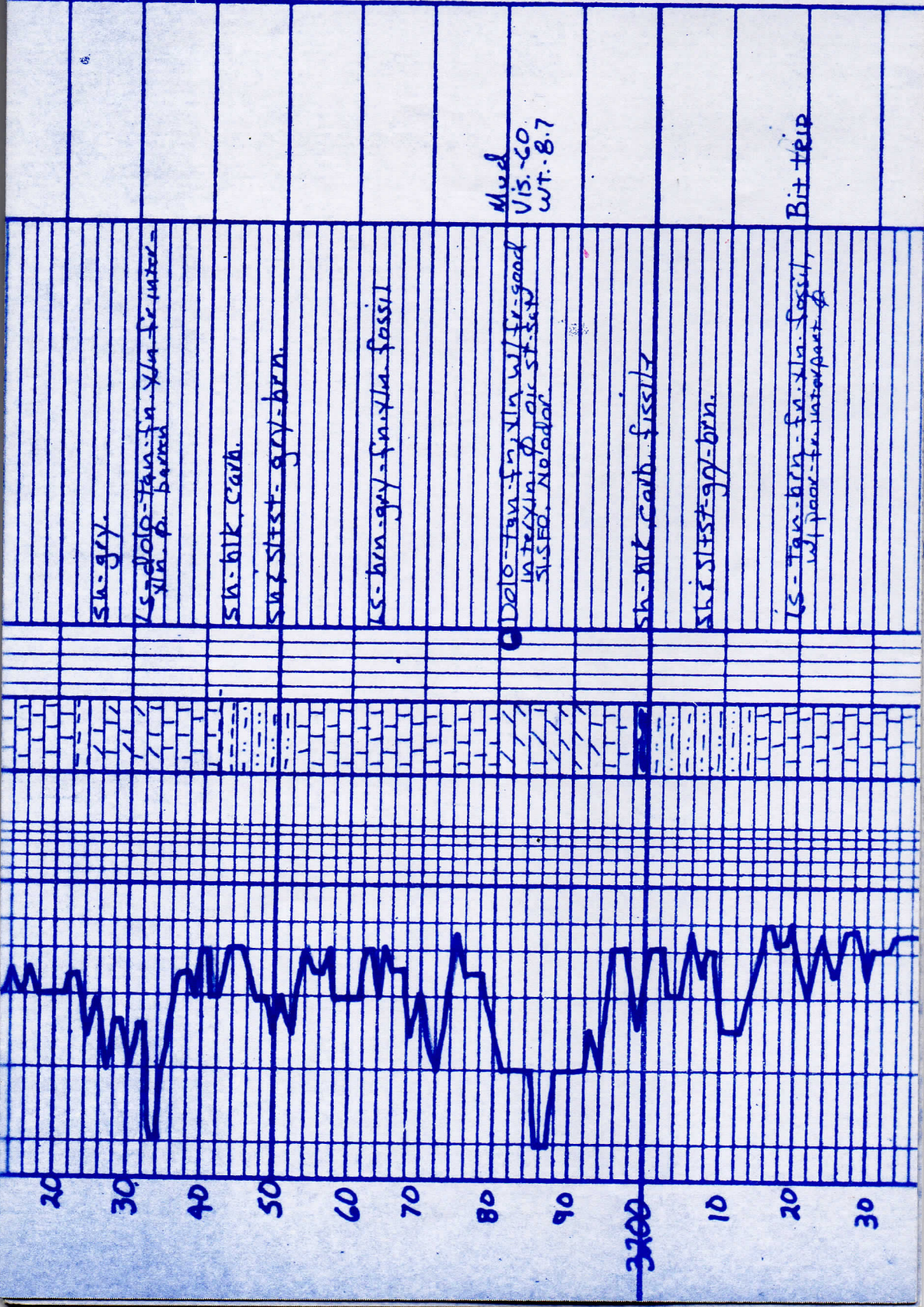
M. 1000 2548
Vis. - 35 VP. - 15
wt. - 8.6 Chl. - 1.5C
wh. - 7.2 Lcm. 3 1/2 #

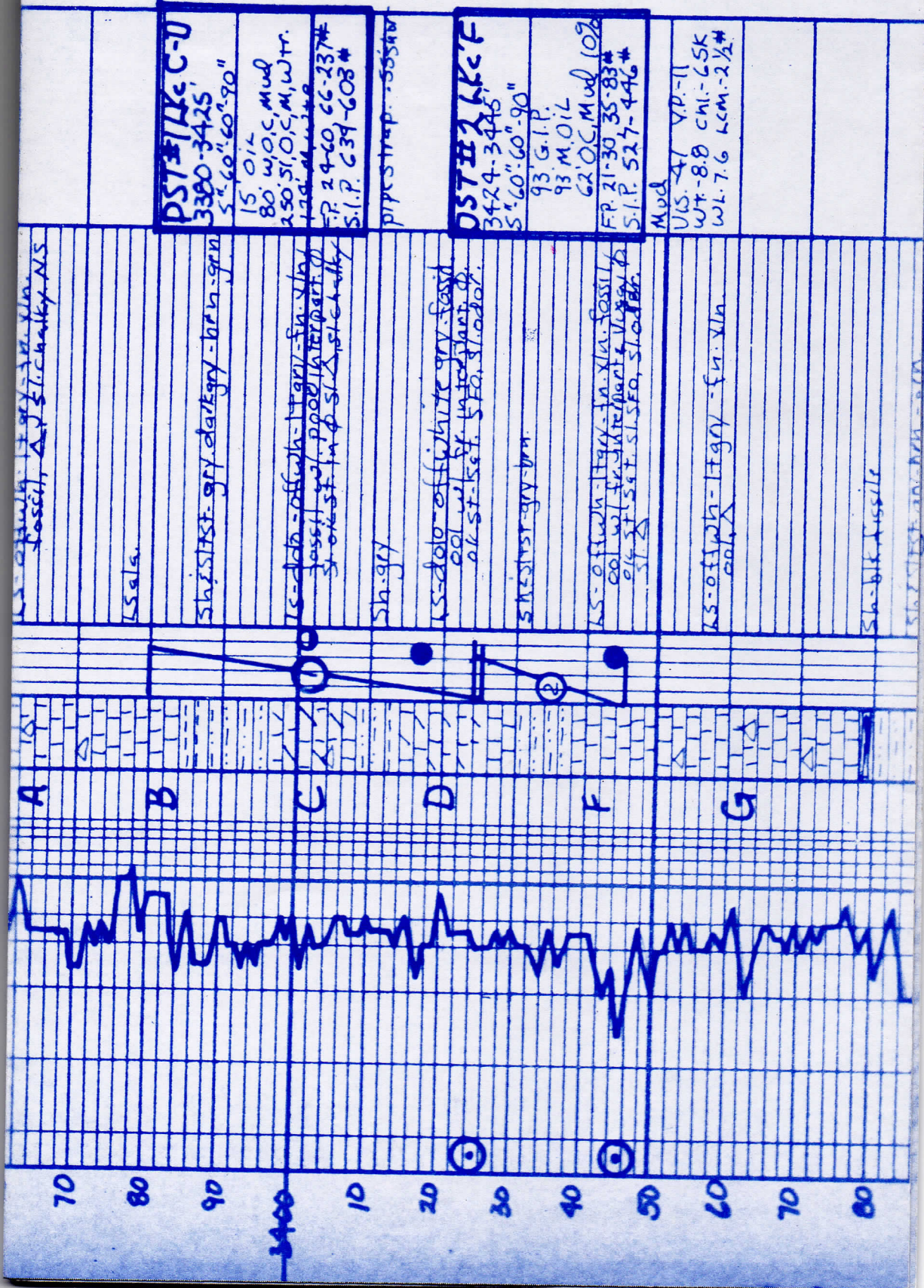
geo. location
5 pm 4-22-18

sh - gry - brn.
ls - tan - gry - fr. xln. - sl. chalky
shales - t - gry.
ls - tan - brn - gry - fr. xln. fossil.



3000
10
20
30
40
50
60
70
80
90
3100
10
speckle





LS - off wh - lgry - fm. xln. fossil, Δ, S. cherty. AS

LSala

Sh. sst - gry. clay - brn - gm

LS - dolo - off wh - lgry - fm. xln. fossil, w. poor interpart. sh. sst. in Δ. sst cherty

Sh - gry

LS - dolo - off wh - lgry - fossil oil w. sst. in top part of oil sst. sst. SFA, S. 200'

Sh - sst - gry - brn

LS - off wh - lgry - fm. xln. fossil oil w. sst. in top part of oil sst. SFA, S. 200'

LS - off wh - lgry - fm. xln

Sh - blk. fissile

Sh - sst - gry - brn - gm

PST #1 Kc C-0
3380-3425
5" 60" 60" 90"

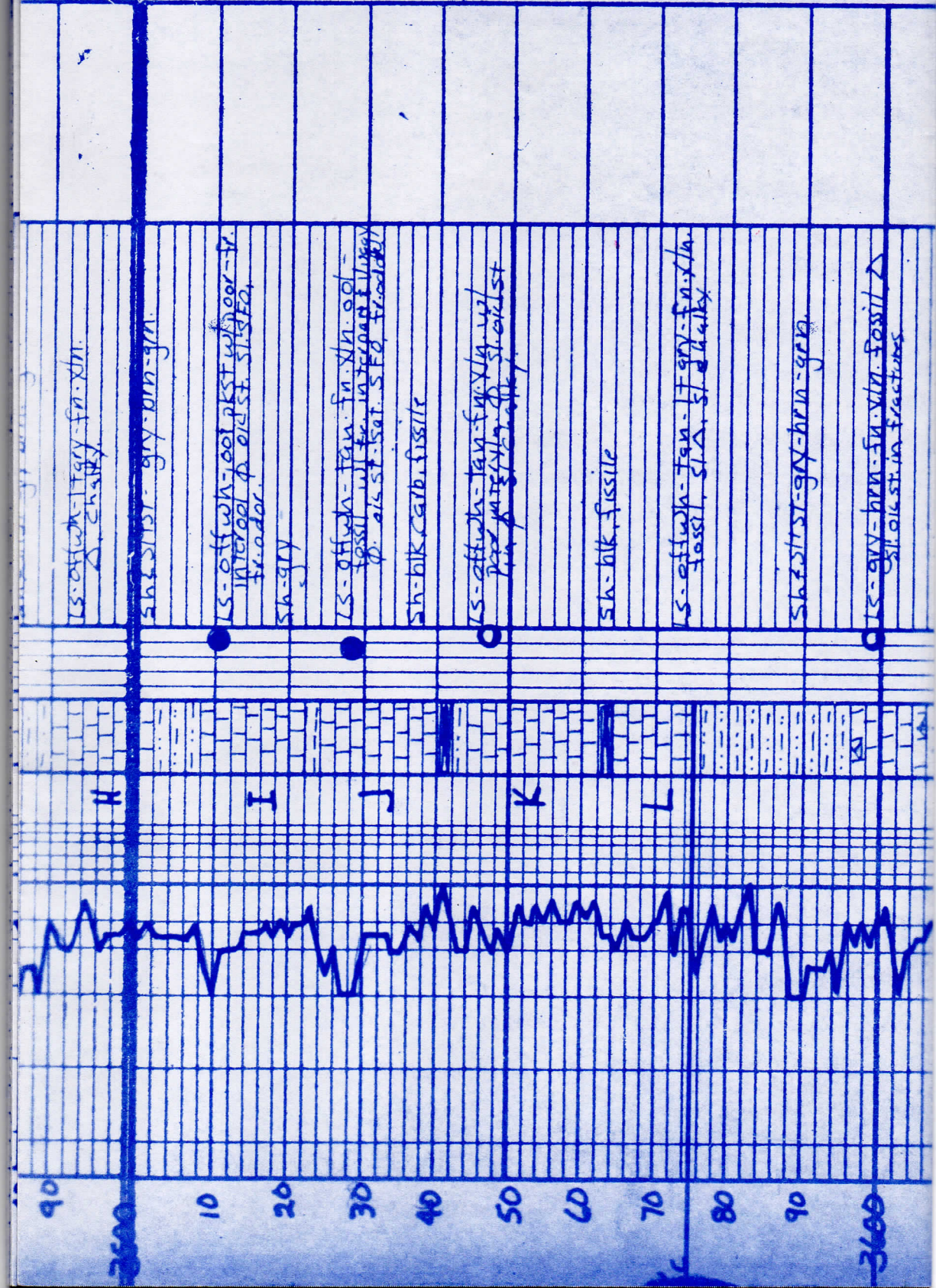
15' Oil
80' w. O.C. Mud
250' S.I.P. C.M. W.T.
F.P. 24-60 66-237#
S.I.P. 634-608#

pipe strap - 55548

PST #2 Kc C-F
3424-3445
5" 60" 60" 90"

93' G.I.P.
93' M.Oil
62' O.C. Mud 1092
F.P. 21-30 35-83#
S.I.P. 527-446#

Mud
VLS. 47 V.P. = 11
WT. 8.8 CHI. 65K
WL. 7.6 LCM. 2 1/2#



LS-offwh-tgray-fn-xln
 Δ chalky

sh-st-st-gray-brn-grn

LS-offwh-ool-ool-ool-w/oor-iv
 intercal p oil-st. st. sfa.
 fr. odor.

sh-gray

LS-offwh-tan-fn-xln-ool
 fossil w/ fr. in fragment
 p. oil-st. sat. sfa. fr. odor

sh-blk carb. fissile

LS-offwh-tan-fn-xln-w/ol
 p. oil-st. sat. sfa. fr. odor
 p. oil-st. sat. sfa. fr. odor

sh-blk fissile

LS-offwh-tan-fn-xln
 fossil, sfa. st. oil-st. sat. sfa. fr. odor

sh-st-st-gray-brn-grn

LS-gray-brn-fn-xln-fossil
 oil-st. in fractures

H

I

J

K

L

90

10

20

30

40

50

60

70

80

90

3600

3600

