

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 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	Palomino Petroleum, Inc.
Well Name	ABS 1
Doc ID	1418561

All Electric Logs Run

Dual Induction
Compensated Density Neutron/PE
Dual Reciever Cement Bond
Micro Resistivity

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	ABS 1
Doc ID	1418561

Tops

Name	Top	Datum
Anhy.	1937	(+630)
Base Anhy.	1968	(+599)
Heebner	3842	(-1275)
Lansing	3880	(-1313)
BKC	4200	(-1633)
Marmaton	4235	(-1668)
Pawnee	4332	(-1765)
Ft. Scott	4389	(-1822)
Cherokee Sh.	4417	(-1850)
Miss. Dol.	4490	(-1923)
LTD	4654	(-2087)

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	ABS 1
Doc ID	1418561

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
4	4540	4545			250 gal. 15% MOD-202
					500 gal. 15% NE with 2% solvent
4	4144	4150			250 gal. 15% MCA
					1000 gal. 15% NE with 2% solvent
4	4410	4412			250 gal. 15% MCA
					1000 gal. 15% NE with 2% solvent
4	4053	4056			250 gal. 15% MCA
					1000 gal. 15% NE with 2% m.s.
					250 gal. 15% MCA

Ryan Seif
Palomino Petrol

510 N. Travis

Lawrence, KS 67320

(785) 782-8885

COMPLETION REPORT
STANDARD OIL COMPANY

Palomino Petroleum

WELL ABS # 1

SECTION 2394' FRL & 2467' FEL

SEC. 18 T. 17S R. 26W

COUNTY Ness STATE KS

OPERATOR WW Drilling Rig 14

DATE 8/24/16 COMP. 9/3/16

DEPT 4652' TO 4654'

DEPTH 3600' TO RTD

DEPTH 3600' TO RTD

DEPTH 3500' TO ATD

DEPTH 3400' TO Chemical

NO. 15-135-25822

FORMERLY

Anhydrite 1937 (+630) 1943 (+624)

Heabner 3892 (-1275) 3891 (-1279)

Lansing 3880 (-1713) 3882 (-1315)

Stack 4173 (-1566) 4123 (-1516)

D/KS 4200 (-1623) 4201 (-1639)

Macomber 4235 (-1669) 4234 (-1667)

Parsons 4232 (-1265) 4230 (-1263)

Fl. Scott 4399 (-1922) 4390 (-1923)

Char. Ke. Sh. 4417 (-1850) 4416 (-1849)

Miss. ss. pp. on Dol. 4470 (-1923) 4500 (-1933)

SECTION

NO. 2567'

OF

Q. 2556'

FROM KB

CASING RECORD

SIZE 8 5/8" @

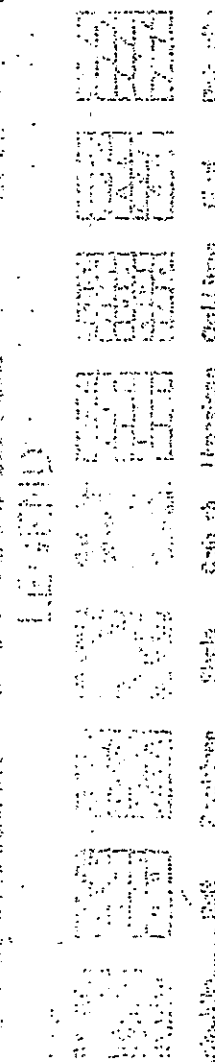
219'

CONDUIT 5 1/2"

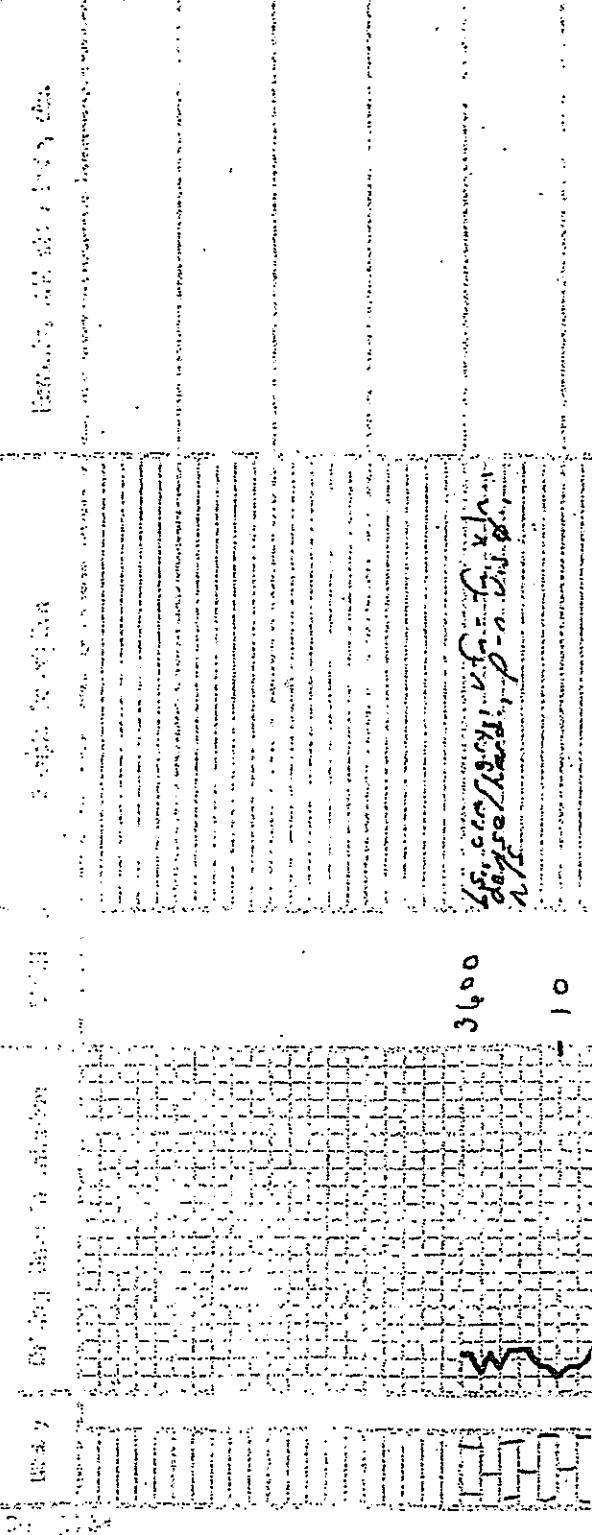
WELL LOG

CND, DIL,

Micro, PE



SCALE = 100'



REFERENCE WILL BE MADE TO THE ORIGINAL SURVEY RECORD

3600
15.50/12.281, v. fa. - f. x. h.
n. p. 50/12.281, p. n. D. 1. 8.

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3700
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3800
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60

15.50/12.281, v. fa. - f. x. h.
n. p. 50/12.281, p. n. D. 1. 8.

Nut ✓ @ 3651
wt. - 8.9
vis. - 4.6
WL - 8.8
CIL - 3,100
Lcm - I#

15.50/12.281, v. fa. - f. x. h.
n. p. 50/12.281, p. n. D. 1. 8.

15.50/12.281, v. fa. - f. x. h.
n. p. 50/12.281, p. n. D. 1. 8.

15.50/12.281, v. fa. - f. x. h.
n. p. 50/12.281, p. n. D. 1. 8.

15.50/12.281, v. fa. - f. x. h.
n. p. 50/12.281, p. n. D. 1. 8.

15.50/12.281, v. fa. - f. x. h.
n. p. 50/12.281, p. n. D. 1. 8.

15.50/12.281, v. fa. - f. x. h.
n. p. 50/12.281, p. n. D. 1. 8.

15.50/12.281, v. fa. - f. x. h.
n. p. 50/12.281, p. n. D. 1. 8.

15.50/12.281

St. BLK Carb

15.50/12.281, v. fa. - f. x. h.
n. p. 50/12.281, p. n. D. 1. 8.

St. Mac color

Heater 3841
(12-74)

DST # 3 4085'-4128'
 Rec. 3' mud
 IF Surface
 FF- Dead
 HP- 2000# - 1939#
 IFR- 15#/18# PFA- 19#/20#
 IFR- 914# PFA- 291#

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 4200
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DST # 4 4170'-4170'
 30-30-30-30
 Rec. 160' gumco. 842' 61P
 IF- 0.0.0.-10" FSE- N. Kethra
 FF- 0.0.0.-1" FSE- Sur. face
 160' gumco (1875, 4780, 4785, 1120)
 HP- 2061# - 1943#
 IFR- 19#/54# PFA- 44#/74#
 FSE- 958# FSE- 935#

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DST # 5- 4167'-4252'
 Rec. 10' mud
 FF- 1/2"
 FF- Dead
 HP- 2010# - 1969#
 IFR- 15#/17# PFA- 20#/23#
 FSE- 329# FSE- 29#

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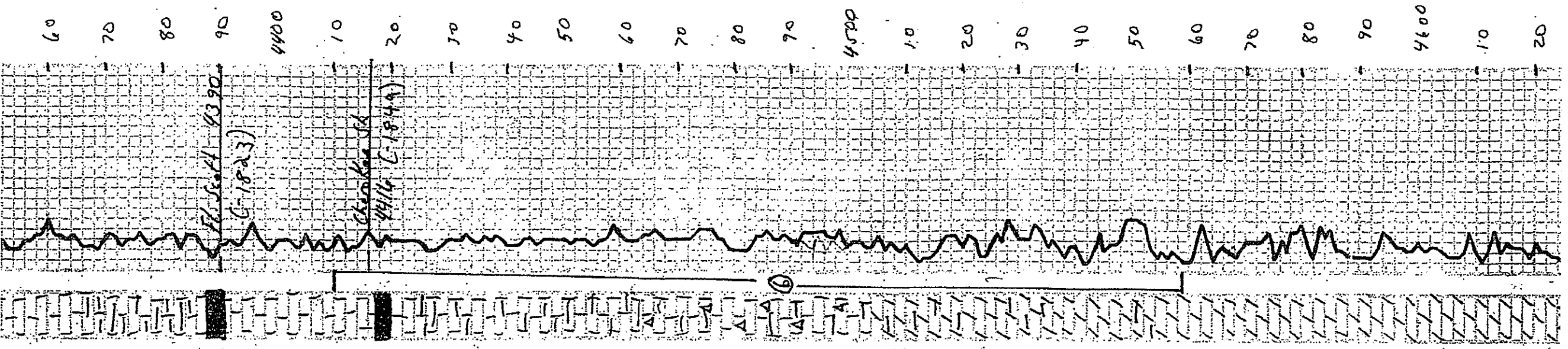
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White-grey soil x-ray done
 Sk., dark grey soil
 Sk., BLK Carb
 Soil, grey soil, x-ray done
 Res. cost P. 9000, 9000
 W., AA, USSFB
 Sk., BLK Carb
 Soil, grey soil, x-ray done
 US, white color
 Soil, grey soil, x-ray done
 W., AA, clay
 Soil, grey soil, x-ray done
 US, 20
 Soil, grey soil, x-ray done
 W., AA, clay
 Soil, grey soil, x-ray done
 US, 20
 Soil, grey soil, x-ray done
 W., AA, clay
 Soil, grey soil, x-ray done
 US, 20
 Soil, grey soil, x-ray done
 W., AA, clay
 Soil, grey soil, x-ray done
 US, 20
 Soil, grey soil, x-ray done
 W., AA, clay
 Soil, grey soil, x-ray done
 US, 20
 Soil, grey soil, x-ray done
 W., AA, clay
 Soil, grey soil, x-ray done
 US, 20
 Soil, grey soil, x-ray done
 W., AA, clay
 Soil, grey soil, x-ray done
 US, 20

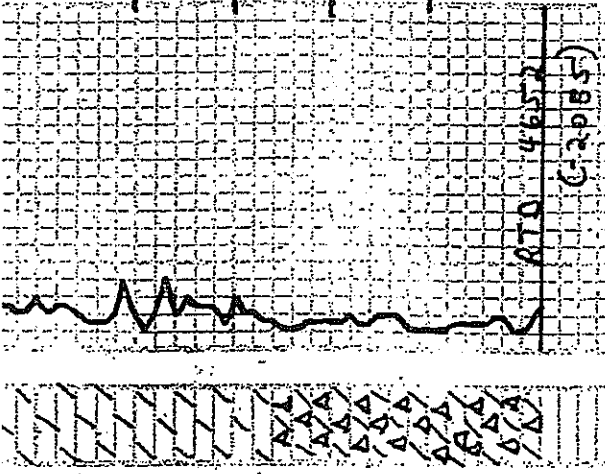
OST #6 4410-4559
 30-30-30-30
 Res. 150' diam (2000, 8000)
 IFF-2 1/2
 FF-11
 HP-2185 # 2138 #
 JFF-21 # 61 # FF-67 # 78 #
 IFF-1101 # F52F-1823 #



Floor 4 (390
 C-1823)

Floor 4
 (1844)

6



4600

10

20

30

40

50

ATO 4652
(2085)

Polystyrene - white, 4.5 x 1.5 x 1.5
hard, 1.0 x 1.0 x 1.0

Polystyrene - light, 4.5 x 1.5 x 1.5
hard, 1.0 x 1.0 x 1.0

Polystyrene - white, 4.5 x 1.5 x 1.5
hard, 1.0 x 1.0 x 1.0

CL, A A

Ryan Selb
Petroleum Geologist

815 S. Trade

Ness City, KS 67560

(785) 783-5300

**GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG**

OPERATOR Palomino Petroleum
LEASE Baker HA Unit #1
FIELD _____
LOCATION 573' FNL + 2553' FNL
SEC. 4 TWP. 16S RGE 25W
COUNTY Wichita STATE KS

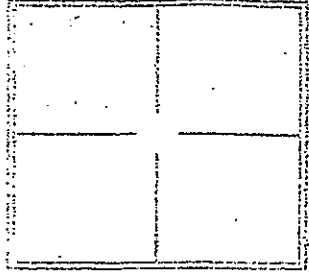
CONTRACTOR LV Rig #20
COORD. 7/15/16 COMP. 7/29/16
HOLE NO. 4835 LGS TO 4824
SAMPLES SHOWN FROM 3500' TO RTD
HOLELOG TIME (HRT) FROM 3500' TO RTD
SAMPLES SHOWN FROM 3500' TO RTD
GEOLOGICAL SUPERVISOR FROM 3400' TO RTD
LOG UP 3500' TYPE AND Chemical
NO. 15-203-20308

FORMATION	LOG	DATE	TOP	DATE	DEPTH	CONTR.
Anhydrite	3507	(-709)	3512	(-699)		
Hedberg	3977	(-761)	3989	(-773)		
Tocant	3998	(-782)	4012	(-794)		
Lansing	4024	(-808)	4038	(-822)		
Stark	4085	(-1069)	4301	(-1085)		
STRC	4374	(-1158)	4385	(-1169)		
Moran	4419	(-1203)	4431	(-1215)		
Dawson	4509	(-1293)	4519	(-1303)		
El Scott	4565	(-1341)	4570	(-1354)		
Mississippian	4772	(-1556)	4785	(-1569)		

ELEVATION
3216'
3197'
Measurements Are All
From KB

CASING RECORD
SIZE 8 5/8" @
232'
THICKNESS 5 1/2"

WELL LOG SURVEYS
CND, DIL, Micro,
PE

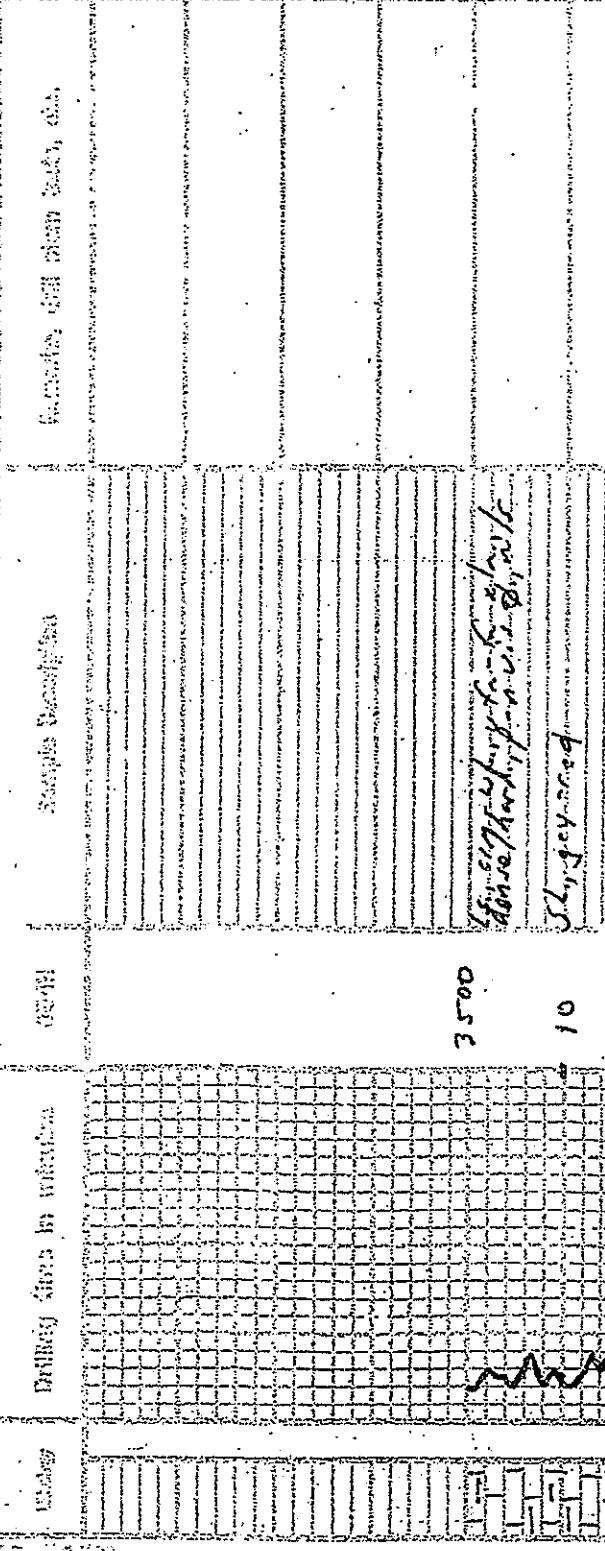


REFERENCE WELL FOR SURVEYAL COMPANY

LEGEND

- Anhydrite
- Hedberg
- Tocant
- Lansing
- Stark
- STRC
- Moran
- Dawson
- El Scott
- Mississippian

SCALE 1" = 100'



3500
10
20
30
40
50
60
70
80
90
3600
10
20
30
40
50
60
70
80
90
3700
10
20
30
40
50

don't know what it is, but

It's a red

It's a red, but it's done!

It's a red

It's a red, but it's done!

It's a red

It's a red, but it's done!

It's a red, but it's done!

It's a red, but it's done!

It's a red

It's a red, but it's done!

It's a red, but it's done!

It's a red, but it's done!

It's a red, but it's done!

It's a red, but it's done!

It's a red, but it's done!

Mud V @ 3769
wt. - 8.6
vis - 46
CL - 7.2
CL - 5,000
LCM - 2 #

thin in clay to clay dense
hard mud shale
thin AA, MS

50
60
70
80

Mud V @ 3788
wt. - 9.4
vis - 63
CL - 7.2
CL - 5,600
LCM - 2 #

thin in clay to clay dense
hard mud shale
thin AA, MS

90
3800

Mud V @ 3788
wt. - 9.4
vis - 63
CL - 7.2
CL - 5,600
LCM - 2 #

thin in clay to clay dense
hard mud shale
thin AA, MS

20
30
40

DST # 2 3886' - 3987'
15-80-15-30
rec. 220' m.c.w. w/ oil spots
in 400'. (90% oil, 10% gas)
IF - 0.0.0-3"
FF - 8.0.8-3" N.s. Reduction
HP - 1928# - 1870#
IFP - 228# - 318# FFP - 332# - 422#
FSEP - 1012# FSEA - 984#

thin in clay to clay dense
hard mud shale
thin AA, MS

50
60
70
80
90

Sh, dk carb
dry gas - 20%
dense shale
w/ oil spots

thin in clay to clay dense
hard mud shale
thin AA, MS

3900
10

thin in clay to clay dense
hard mud shale
thin AA, MS

thin in clay to clay dense
hard mud shale
thin AA, MS

20
30
40

thin in clay to clay dense
hard mud shale
thin AA, MS

thin in clay to clay dense
hard mud shale
thin AA, MS

50
60
70

DST # 2 3986' - 4060'
30-30-30-30
Rec. 220' m.c.w. w/ oil
spots
IF - 8.0.0-8"
FF - 0.0.0-9" (95% oil, 5% gas)
HP - 2009# - 1939#
IFP - 66# - 258# FFP - 258# - 391#
FSEP - 1045# FSEA - 1024#

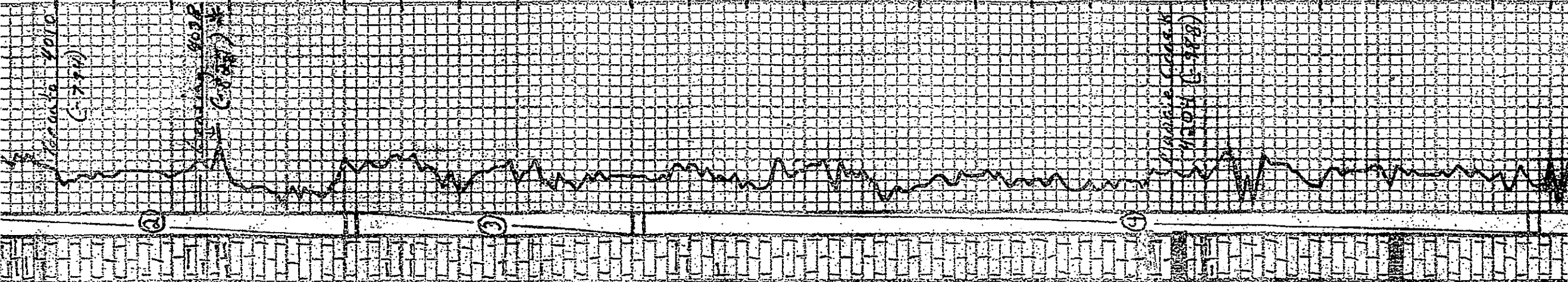
thin in clay to clay dense
hard mud shale
thin AA, MS

80
90

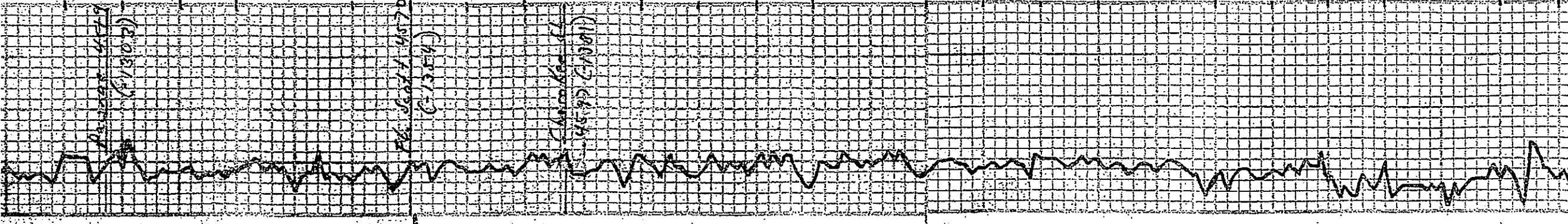
thin in clay to clay dense
hard mud shale
thin AA, MS

thin in clay to clay dense
hard mud shale
thin AA, MS

4000
10



10	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	OST # 3 40621-4110 30-30-30-30 Rec. 2-10' m.c.w. w. oil spots C60% w, 40% m, FF-3" FF-2" N. Re. 1000 IFF-24# 80# FFP-86# 108# HP-205, #-1974# FSTP-919# FSTP-808#
20	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	Mud v @ 4060 WB- 7.5 LS- 5.4 WL- 8.8 CL- 6.500 LCM- 2.4
30	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	Mud v @ 4110 UL- 9.4 LS- 5.6 WL- 8.8 CL- 7.500 LCM- 2.4
40	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
50	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
60	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
70	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
80	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
90	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
4100	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
10	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
20	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
30	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
40	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
50	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
60	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
70	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
80	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
90	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
4200	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
10	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
20	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
30	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
40	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
50	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
60	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	
70	Sh. tan color darker in some places scattered thin sh. - 2-3" - 5-10"	



10 Sh., BLK Card
 20 Sh., tan - brown, tan, sh. y. down
 30 dense hand, y. sh. p. 1000
 40 Sh., AA
 50 Sh., BLK Card
 60 Sh., tan - brown, tan, sh. y. down
 70 Sh., BLK Card
 80 Sh., tan - brown, tan, sh. y. down
 90 Sh., tan - brown, tan, sh. y. down
 4600 Sh., BLK Card
 10 Sh., tan - brown, tan, sh. y. down
 20 Sh., tan - brown, tan, sh. y. down
 30 Sh., AA
 40 Sh., BLK Card
 50 Sh., tan - brown, tan, sh. y. down
 60 Sh., AA
 70 Sh., tan - brown, tan, sh. y. down
 80 Sh., tan - brown, tan, sh. y. down
 90 Sh., tan - brown, tan, sh. y. down
 4700 Sh., tan - brown, tan, sh. y. down
 10 Sh., tan - brown, tan, sh. y. down
 20 Sh., tan - brown, tan, sh. y. down
 30 Sh., tan - brown, tan, sh. y. down
 40 Sh., tan - brown, tan, sh. y. down
 50 Sh., tan - brown, tan, sh. y. down
 60 Sh., AA
 70 Sh., AA

4679
 (5/30/8)

4570
 (5/30/8)

4570
 (5/30/8)

4570
 (5/30/8)

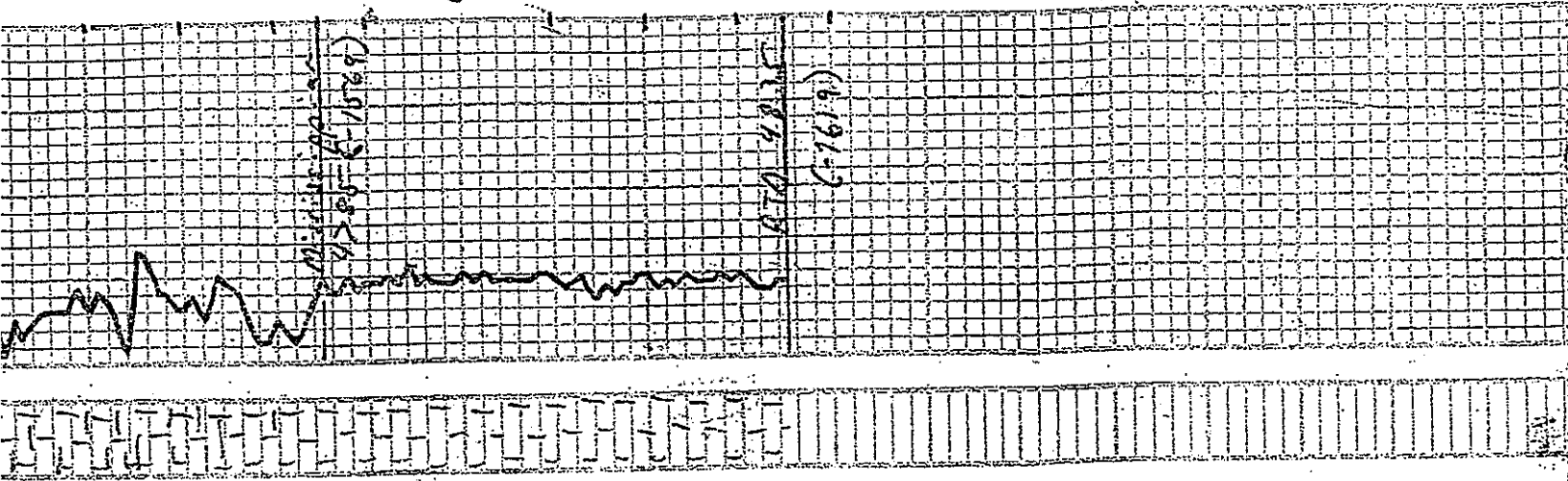
4570
 (5/30/8)

4570
 (5/30/8)

4570
 (5/30/8)

4570
 (5/30/8)

4570
 (5/30/8)



25, AA

36, AA

Very sandy, R. pink, dense /
hard, sandy, 100 ft

Very sandy, R. pink, dense /
hard, sandy, 100 ft

Very sandy, R. pink, dense /
hard, sandy, 100 ft

Summary of Changes

Lease Name and Number: ABS 1
API/Permit #: 15-135-25922-00-00
Doc ID: 1418561
Correction Number: 1
Approved By: Karen Ritter

Field Name	Previous Value	New Value
Approved Date	10/12/2016	08/22/2018
Geologist Report / Mud Logs?		Yes
Perf_acid1		Attached
Perf_bridgeplug1depth		Attached
Perf_bridgeplug1type		Attached
Perf_perf1bottom		Attached
Perf_perf1top		Attached
Perf_shots1		Attached
PerforationsRevised		[[dataGrid]]
Producing Formation	LKC & Miss.	LKC H, LKC K, Ft. Scott & Miss.

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Production Interval #1		4053
Production Interval #3		4545

Summary of Attachments

Lease Name and Number: ABS 1

API: 15-135-25922-00-00

Doc ID: 1418561

Correction Number: 1

Attachment Name

ABS #1