

SLAWSON EXPLORATION CO., INC.

David Ketterl No. 1-30

Section 30, T1S, R30W
Decatur County, Kansas
July, 2015

Well Summary

The Slawson Exploration Co., Inc., David Ketterl No. 1-30 was drilled as a wildcat based on seismic to a total depth of 4545'. One on the closest offsets was the Frank A. Schultz, Frankie No. 1, Sec. 36, T1, R.31W – 1 ¾ miles to the SW. Formation tops ran relatively even to this offset(2' high to 9' low) from the Topeka to the BKC. The Arbuckle and Reagan Sand ran 15' and 7' high.

Several minor hydrocarbon shows were documented during the drilling of this test. The best occurring in the Oread(3721'-3732') and consisting of a Biomicritic Limestone with live oil in its moldic and vuggy porosity and explosive cut(live oil show in about 12% of the samples). This interval drillstem tested(3656'-3740') tight with no fluid recovery.

Additional minor shows occurred in the Lansing "D" and "E"(attached mudlog) and were drillstem tested (3882'-3960') and recovered 150' of watery mud(30% w) with oil spots.

The David Ketterl No. 1-30 was plugged and abandoned 7/28/15'

Respectfully Submitted,



Peter Debenham

WELL DATA

Operator: Slawson Exploration Co., Inc., 204 N. Robinson Ave, Ste. 2300, Oklahoma City, Oklahoma, 73102

Company Rep. and Geologist: Chris Gough, Denver.

Well: David Ketterl No. 1-30

Location: 770'FSL & 370'FEL, Sec 30, T1S, R30W, Decatur Co., Kansas, 6 miles East of Herndon

Surface Owner: David Ketterl,

API No.: 15-039-21220

Elevation: Ground Level 2768', Kelly Bushing 2776'

Contractor: WW Drilling, LLC. Rig No. 12, Double jacknife, TP Calvin Pfannenstiel, Drillers: Randy Scaurow, Wade Badger, Greg Ernst

Spud Date: 7/20/15

Total Depth: 7/27/15, Driller 4545', Logger 4542', Arbuckle Fm.

Casing Program: 8 5/8" set at 348'.

Mud Program: Kansas Drilling Tech., KDT, engineer Ken Rupp

Drillstem Testing: Trilobite, Engineer Robert Zodrow, DST No. 1(3656'-3740'), Oread Fm., DST No. 2(3882'-3960'), Lansing D & E

Wellsite Consultant: Peter Debenham, P.O. Box 350, Drake, CO 80515, 720/220-4860,

Samples: 10' to TD – one dry cut sent to KGS log library.

Electric Logs: Weatherford, Engineer Ben Weldin, 1) Dual Induction, 2) Neutron Density, 3) Microlog, 4) Sonic

Status: Plugged and abandoned 7/28/15.

WELL CHRONOLOGY

10 PM			
<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
7/20	348'	348'	Move to location and rig up rotary tools. Mix spud mud. Spud in 12 1/4" surface hole to 348' and circulate and jet cellar. Drop survey(1/2 deg.) and trip out and run and cement 8 5/8" set at 348', did circulate. Wait on cement.
7/21	2213'	1865'	Wait on cement. Drill plug and cement and 7 7/8" hole to 2213'. Jet pits.
7/22	3153'	940'	Jet pits and service rig.
7/23	3740'	587'	Displace mud system at 3341'
7/24	3800'	60'	To 3740' and circulate for samples. Short trip 26 stands and circulate. Strap out for DST No. 1(3656'-3740'), Oread Fm. - no depth correction. Trip in and run test and trip out and lay down tool. Trip in and try to circulate, plugged bit. Trip out and unplug bit and trip in and circulate and drill to 3800'.
7/25	3960'	160'	Circulate for samples at 3874', 3920' and 3960'. Wiper trip 14 stands and circulate. Trip out for DST No. 2(3882'-3960'), Lansing "D" & "E" and run test. Pull and unload tool and trip in.
7/26	4240'	280'	Jet pits and add premix and circulate hole clean. Circulate for samples at 3990', 4010' and 4048'. Service breaks.
7/27	4545'TD	305'	Circulate for samples at 4274', 4472' and 4500'. To 4545'TD and circulate. Short trip and circulate and trip out for logs and run same.
7/28	TD		Run ELogs and wait on orders. Trip in and circulate. Trip out laying down and plug and abandone well. Rig down.

MUD PROPERTIES

<u>DATE</u>	<u>DEPTH</u>	<u>WT</u>	<u>VIS</u>	<u>PV</u>	<u>YP</u>	<u>pH</u>	<u>WL</u>	<u>CL</u>	<u>LCM-LBS/BBL</u>
7/21	1367'	8.8	29	make up water					
7/22	2840'	9	31						
7/23	3341'	8.4	50	15	15	11.7	8.0	800	2 1/2
7/24	3740'	9	60	15	20	10.5	8.0	2000	2
7/25	3920'	8.9	63	15	20	9.3	8.8	2000	1 1/2
7/26	4077'	9.1	57	15	20	10.2	8.8	2500	1 1/2

BIT RECORD

<u>NO.</u>	<u>MAKE</u>	<u>TYPE</u>	<u>SIZE</u>	<u>OUT</u>	<u>FOOTAGE</u>	<u>HOURS</u>
1	Smith	RR	12 1/4"	348'	348'	2 3/4
2	Smith	F271Y	7 7/8"	4545'	4197'	113
Total Rotating Hours:						115 3/4
Average:						39.3 Ft/Hr

DEVIATION RECORD

348' 1/2, 3740' 3/4, 4545' 3/4

DRILL STEM DATA

DST NO. 1: (3654'-3740'), Oread Fm.

Type: Conventional Bottom Hole, Times: 30-45-45-60

Blows: IF - Slowly built to 3". FF - Steadily built to 3".

I & FSI - no blowback.

<u>PERIOD</u>	<u>PSI</u>
IH	1779
IF	16 - 57
ISI	1180
FF	60 - 57
FSI	1134
FH	1726

BHT 108 deg. F.

RECOVERY: 150' mud, no show.

DST NO. 2:(3882' - 3960'), Lansing "D&E"

Type: Conventional Bottom Hole, Times: 30-45-60-75

Blows: IF - Weak to 2 1/4" at end of period. FF - To 3 3/4".

I & FSI - no blowback.

<u>PERIOD</u>	<u>PSI</u>
IH	1938
IF	17 - 53
ISI	1280
FF	59 - 84
FSI	1232
FH	1863

BHT 110 deg. F.

RECOVERY: 150' of watery mud(30% w) with oil spots.

ELECTRIC LOG FORMATION TOPS- KB Elev. 2776'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>*Frankie No. 1</u>	
			<u>DATUM</u>	<u>POSITION</u>
Surface Csg	340'			
Anhydrite	2561'	+215'	+212'	+3
Topeka	3620'	-844'	-846'	+2'
Oread	3721'	-945'	-941'	-4'
Heebner	3735'	-959'	-956'	-3'
Lansing	3776'	-1000'	-991'	-9'
B	3811'	-1035'	-1030'	-5'
C	3866'	-1090'	-1086'	-4'
D	3900'	-1124'	-1119'	-5'
E	3937'	-1161'	-1158'	-3'
F	3972'	-1195'	-1197'	+2'

G	3990'	-1214'	-1212'	+2'
BKC	4010'	-1234'	-1225'	-9'
Pawnee	4118'	-1342'	-1345'	+2'
Cherokee SS	4236'	-1510'	-1479'	-31'
Arbuckle	4321'	-1545'	-1479'	+15'
Reagan SS:	4458'	-1682'	-1689'	-17'
Granite Wash	4486'	-1710'	-1719'	+9'
TD	4545'			

*Frank A. Schultz, Frankie No. 1, Sec. 36, T1, R.31W - 1 3/4 miles to the SW, K.B. Elev. 2681'.

LITHOLOGY DESCRIPTION

SAMPLES ARE LAGGED

CORRECTED E-LOG FORMATION TOPS

*INDICATES HYDROCARBON SHOW

3390-3424 LIMESTONE: Lt to medium brown to gray redbrn mottled buf biomicr fine crystalline hard dense micxln and micsuc in part clean to argillaceous fossils sndy tight/occasional trace intxln porosity no fluorescence no stain or cut

3424-3470 SHALE: Mot redbrn to brown gray occasional gygn firm to soft blocky earthy occasional interbed with LIMESTONE: as above

3470-3480 LIMESTONE: Mor rdbrn to gray fine crystalline hard dense argillaceous to marly sbchky in part tight no show

3480-3516 SHALE: Redbrn gray to gygn mottled brown firm blocky earthy intd with LIMESTONE: Lt to medium brown gray mottled fine crystalline sbchky in part micsuc in part very sndy clean to argillaceous poor vis porosity no show

3516-3532 LIMESTONE: Lt brown buff firm to hard fine crystalline micsuc in part predominant hard and dense fossils sbchky sndy no show interbed with SHALE: as above

3532-3574 SHALE: Brick red earthy soft to firm blocky sndy interbed with LIMESTONE: Lt to medium brown gray mottled fine crystalline sbchky in part micsuc in part very sndy clean to argillaceous poor vis porosity no show

3574-3590 LIMESTONE: Lt brown buff mottled redbrn fine crystalline hard dense argillaceous to marly fossils sndy tight no show with SHALE: as above

3590-3610 LIMESTONE: Lt brown buff light mottled redbrn to red micxln micsuc brittle clean sbchky sndy fossils intxln and occasional moldic porosity no fluorescence no stain or cut

3610-3632 SHALE: Redbrn earthy blocky silty interbed with LIMESTONE

Topeka 3620'

3632-3658 LIMESTONE: Wh buff fine crystalline sbchky clean fossils silica in part poor vis porosity no show

3658-3670 SHALE: Redbrn earthy blocky silty interbed with LIMESTONE: Wh sbchky clean tight no show

3670-3700 SHALE: Redbrn gray to gygn occasional black firm blocky carbonaceous in part with interbed LIMESTONE: Wh light brown to buff crpxln hard dense clean fossils tight no show

3700-3726 SHALE: Redbrn gray to gygn occasional black firm blocky carbonaceous in part with interbed LIMESTONE: Wh light brown to buff crpxln hard dense clean fossils tight no show

3721-3732 *LIMESTONE: Mot brown to gray biomicr fine crystalline micsuc in part clean fossils with moldic and gd vug porosity with abt dark brown live bldng oil(12% sample) dark goldbrn hydrocarbon fluorescence exc explosive cut very oolites in part with intpart porosity and even oil stain and live oil chrt nodls

Heebner 3735'

3732-3746 SHALE: Gy gygn occasional black firm earthy blocky silty carbonaceous in part LIMESTONE: Lt to medium mottled brown crpxln hard dense to trace isol vug porosity with trace oil stain and live oil speck gold hydrocarbon fluorescence gd strmg cut show in <1% sample

3746-3776 SHALE: Redbrn gray to gygn blocky earthy silty in part

Lansing 3776'

3776-3786 LIMESTONE: Lt brown tan crpxln hard dense sbchky in part clean fossils sndy in part occasional trace intercrystalline porosity with oil show(<1% sample) light mottled brown oil stain and trace live oil speck gold hydrocarbon fluorescence exc cut

3786-3804 SHALE: Redbrn gray to gygn occasional black blocky

3804-3840 LIMESTONE: Brn tan crpxln hard dense clean silica tight no show

3840-3866 SHALE: Redbrn occasional black gygn earthy in part blocky silty carbonaceous in part

3866-3884 LIMESTONE: Lt brown to gray gygn crpxln hard dense silica sbchky in part clean tight no show

3884-3900 SHALE: Redbrn occasional black gygn earthy in part blocky silty carbonaceous in part

"D"

3900-3912 *LIMESTONE: Wh buff light mottled brown crpxl to micxln sbchky in part clean fossils with trace intpart porosity trace vug and isol intxln porosity light mottled brown oil stain and trace live oil bright speck goldyel hydrocarbon fluorescence exc strmg cut tight show in 2% sample

3912-3938 SHALE: Redbrn earthy blocky soft waxy occasional gygn and firm

"E"

3938-3954 *LIMESTONE: Lt to medium mottled brown micxln micsuc sbchky in part brittle clean fossils and very oolites in part with intpart porosity occasional vug and intxln porosity light brown oil

stain and trace live oil speck gold hydrocarbon fluorescence exc strmg cut show in 5% spls

3954-3974 SHALE: Redbrn to brown gray gygn occasional black blocky pyrite in part carbonaceous in part silty interbed with LIMESTONE: Lt brown crpxln hard dense clean tight no show

3974-3984 LIMESTONE: Lt brown buff tan crpxln hard dense sbchky in part clean sndy tight no show

3984-4000 SHALE: as above with LIMESTONE: Brn crpxln hard dense silica sndy tight no show

BKC 4010'

4000-4024 SHALE: Redbrn to brown blocky silty to waxy with SHALE: Gy gygn mottled brown varic in part earthy blocky silty waxy interbed with crpxln LIMESTONE: as above

Pawnee 4118'

4024-4032 LIMESTONE: Med to dark mottled brown redbrn to orange varic in part fine crystalline hard dense argillaceous to marly in part tight no show

4032-4060 SHALE: Lt gray tan to brown redbrn green varic soft waxy amorphous in part

4060-4094 LIMESTONE: Redbrn mottled gygn tan varic in part crpxln hard dense argillaceous to marly sndy carbonaceous in part tight no fluorescence no stain or cut interbed with SHALE: Lt gray tan to brown redbrn green varic soft waxy amorphous in part

4094-4118 SHALE: Redbrn gray to green earthy blocky firm to soft calcareous fossils in part

4118-4160 LIMESTONE: Med to light mottled brown gray tan micr fine crystalline hard dense sbchky in part clean fossils sndy in part occasional vis intxln porosity no fluorescence no stain or cut

LIMESTONE: Med to light mottled brown gray tan micr fine crystalline hard dense sbchky in part clean fossils sndy in part occasional vis intxln porosity no fluorescence no stain or cut

4160-4190 SHALE: Redbrn to red gray to green medium brown green blocky firm waxy to sndy interbed with LIMESTONE: Med to light brown to gray buff fine crystalline argillaceous to marly tight no show

4190-4214 SHALE: Brick red medium gray to brnred blocky earthy waxy occasional interbed with LIMESTONE: as above

4214-4226 LIMESTONE: Wh light brown to gray mottled red to orange and varic in part crpxln hard dense clean to marly fossils tight no show

4226-4246 SHALE: Brick red medium gray to brnred blocky earthy waxy occasional interbed with LIMESTONE: Wh light brown to gray mottled red to orange and varic in part crpxln hard dense clean to marly fossils tight no show

Cherokee SS 4236'

4246-4270 Abt loose unconsl Qtz and Fldspr grains: Clr pink red vc/fine poor sorted rounded to sbrnd consl in part with clay and silica cement occasional intgran porosity no fluorescence no stain or cut

interbed with SHALE: Redbrn to brown brick red gray viol varic in part blocky waxy sndy in part

4270-4302 SHALE: Redbrn to brown brick red gray viol varic in part blocky waxy sndy in part interbed with SANDSTONE and LIMESTONE: as above no show with abt vc poor sorted sbrnd to rounded Qtz and Fldspr grains

4302-4316 Abt Chrt(70% sample): Red to orange brown tan mottled varic hard crystalline dolic in part with SHALE, trace LIMESTONE

Arbuckle 4321'

4316-4360 DOLOMITE: Lt to medium brown gray redbrn orange speck green and glauconitic in part hard to brittle micro to coarsely crystalline in part sucrosic to slightly granular hard to brittle trace intxln porosity no fluorescence no stain or cut

4360-4400 DOLOMITE: Lt to medium brown to redbrn gray to green mottled varic in part micxln sucrosic brittle clean glauconitic very sndy occasional vug and intxln porosity no fluorescence no stain or cut with CHRT: Clr translucent white red to orange occasional interbed with SHALE: Mot red to brown orange varic firm waxy hard and dolic in part occasional sndy

4400-4448 Chrt: Med brown to gray redbrn hard crystalline glauconitic and pyrite in part DOLOMITE: Med to light brown speck green light red to gray green varic micxln sucrosic brittle clean to argillaceous very glauconitic tight to fair intgran porosity vug porosity no fluorescence no stain or cut with SHALE: Mot brown to red redbrn orange varic firm blocky waxy dolic in part

4448-4458 SHALE: Med to dark redbrn m brown gray gygn redbrn varic blocky waxy very sndy in part DOLOMITE: Mot redbrn orange dark speck green salt and pepper coarse crystalline and granular in part sucrosic to granular very glauconitic brittle in part tight to exc intxln porosity vug porosity no fluorescence no stain or cut CHRT

Reagan SS 4358'

4458-4484 Unconsl Qtz and Fldspr grains(2% sample): Clr translucent white red m/vc moderately sorted rounded to sbrnd grains frosted no show trace SANDSTONE: Clr white translucent fu/clast poor sorted rounded grains silica and clay cement intgran porosity no fluorescence no stain or cut with SHALE: Dk redbrn as above very waxy

4484-4486 GW: Qtz Fldspr and Biotite(20% sample): Clr translucent red to orange yellow black gray to gray varic very coarse angular grains with SHALE: Dk redbrn to yellow green gray varic very waxy sndy in part

Granite Wash 4486'

4486-4515 GW: C angular Qtz Fldspr Biot hrbld grains varic bright red yellow orange green clear translucent dark green to gray fine/vc angular grains with SHALE: V dark redbrn yellow gray to green varic blocky very waxy

4515'4545 Abt GW: Qtz Fldspr Biot coarse angular grains with SHALE: Dk to medium redbrn to brown gray gygn maroon varic waxy

Peter Debenham

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Wellsite Geology

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

Well Name: Slawson Exploration Co., David Ketterl No. 1-30
Location: 770'FSL & 370'FEL, Sec 30, T1S, R30W, Decatur Co., Kansas
Licence Number: API: 15-193-20882 Region: CKU
Spud Date: 7/20/15 Drilling Completed: 7/27/15
Surface Coordinates: 770'FSL & 370'FEL, Sec 30, T1S, R30W, Decatur Co., Kansas

Bottom Hole Coordinates: 770'FSL & 370'FEL, Sec 30, T1S, R30W, Decatur Co., Kansas
Ground Elevation (ft): 2768' K.B. Elevation (ft): 2776'
Logged Interval (ft): 3400' To: TD Total Depth (ft): 4545'
Formation: Lansing, Kansas City, Pawnee, Cherokee, Arbuckle, Reagan SS
Type of Drilling Fluid: Chemical Gel/LSND/LCM, mud up 3500'

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

OPERATOR

Company: Slawson Exploration Co., Inc.
Address: 204 N. Robinson Ave., Ste 2300
Oklahoma City, OK 73102

GEOLOGIST

Name: Wellsite: Peter Debenham
Company: Petrolific Consulting Services
Address: P.O. Box 350
Drake, CO 80515
720/220-4860, Petrolific@gmail.com

DSTs

Trilobite, Engineer Robert Zodrow, DST No. 1(3656'-3740'), Oread Fm., DST No. 2(3882'-3960'), Lansing D & E

Comments

WW Drilling Rig 12, TP Calvin Pfannenstiel, Drillers Randy Scaurow, Greg Ernst, Wade Bader, Company Rep. & Geologist Chris Gough - Denver, Kansas Drilling Tech. engineer Ken Rupp, Weatherford Logs engineer Ben Weldin, P&A 7/28/15.

ROCK TYPES

	Anhy		Clyst		Gyp		Mrlst		Shgy
	Bent		Coal		Igne		Salt		Slst
	Brec		Congl		Lmst		Shale		Ss
	Cht		Dol		Meta		Shcol		Till

ACCESSORIES

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite

- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb

- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt

- Sandy
- Silt
- Sil
- Sulphur
- Tuff

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg

- Ssstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

INTERVALS

- Core
- Dst

EVENTS

- Rft
- Sidewall

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic

- Pinpoint
- Vuggy

SORTING

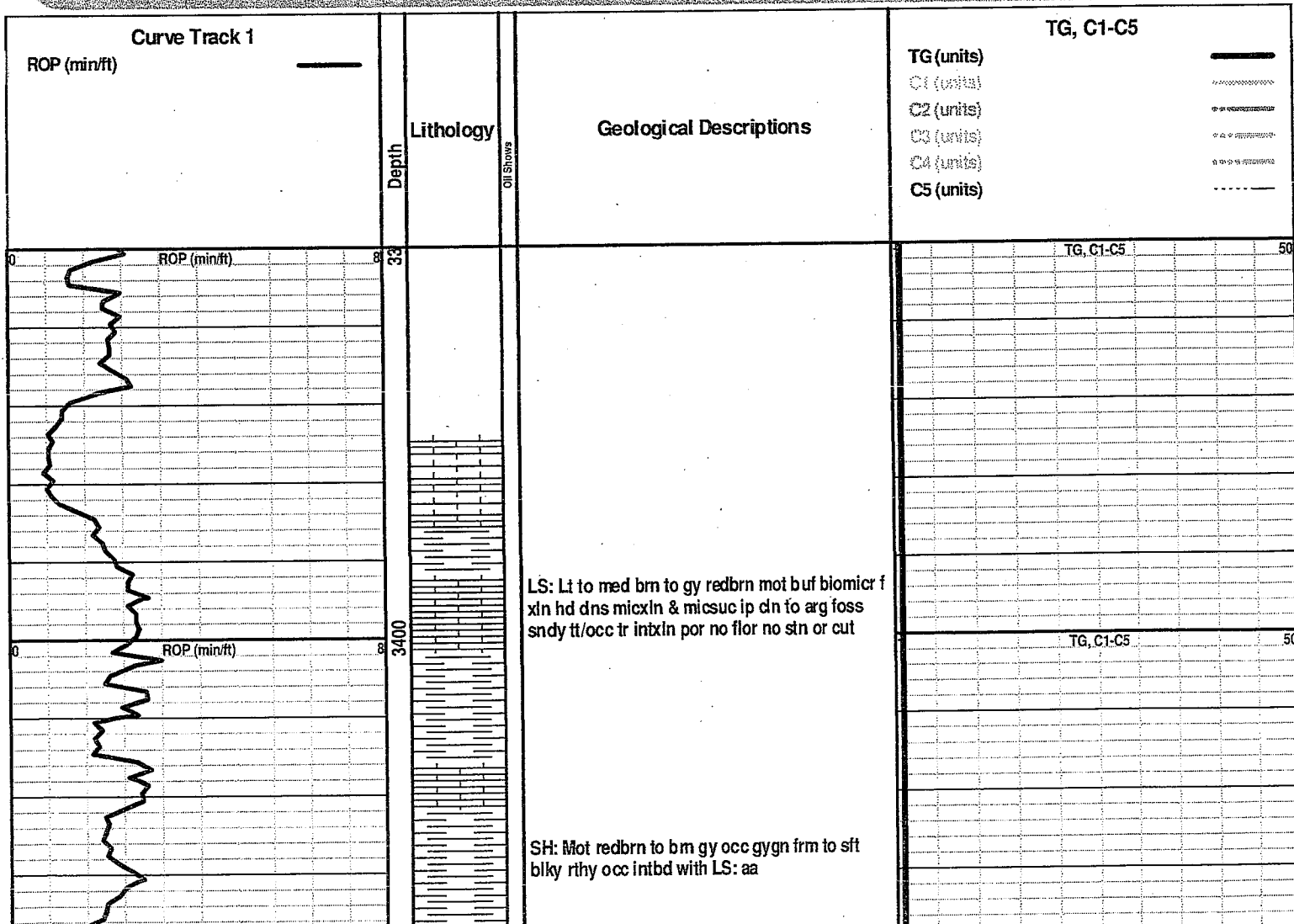
- Well
- Moderate
- Poor

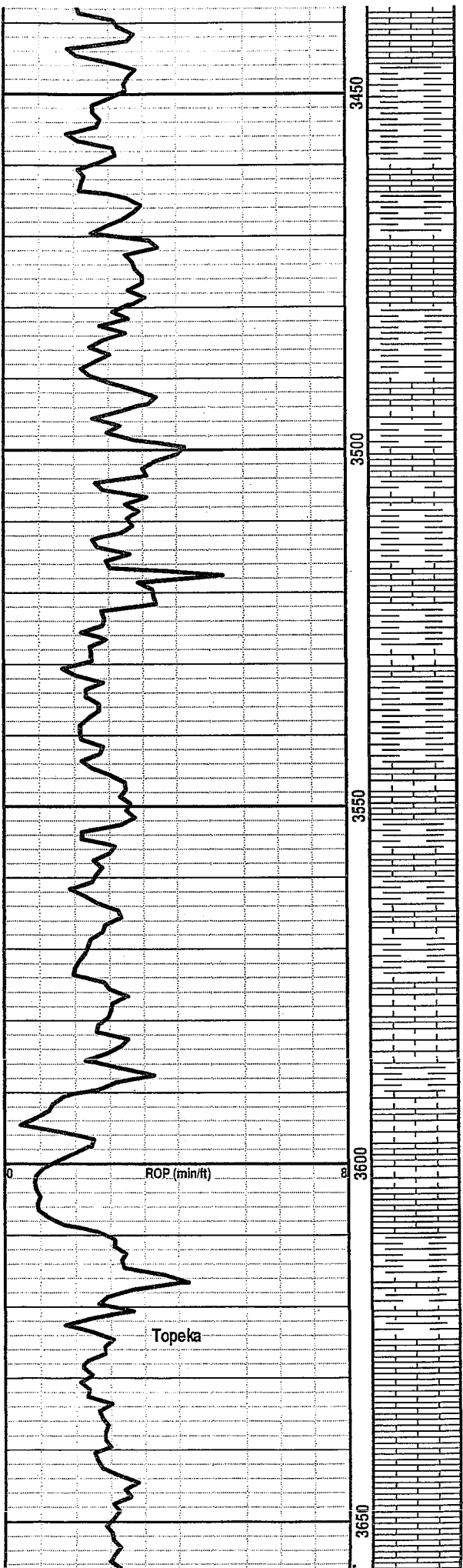
ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead





LS: Mor rdbrn to gy f xln hd dns arg to mrly sbchky ip tt no show

SH: Redbrn gy to gygn mot brn frm blkly rthy intd with LS: Lt to med brn gy mot f xln sbchky ip micsuc ip v sndy cln to arg p vis por no show

LS: Lt brn bf frm to hd f xln micsuc ip pred hd & dns foss sbchky sndy no show intbd with SH: aa

SH: Brick red rthy sft to frm blkly sndy intbd with LS: Lt to med brn gy mot f xln sbchky ip micsuc ip v sndy cln to arg p vis por no show

LS: Lt brn bf mot redbrn f xln hd dns arg to mrly foss sndy tt no show with SH: aa

LS: Lt brn bf lt mot redbrn to red micxln micsuc brit cin sbchky sndy foss intxln & occ moldic por no flr no stn or cut

SH: Redbrn rthy blkly slty intbd with LS

LS: Wh bf f xln sbchky cln foss sil ip p vis por no show

DST No. 1 3656'-3740'

SH: Redbrn rthy blkly slty intbd with LS: Wh sbchky cln tt no show

SH: Redbrn gy to gygn occ blk frm blkly carb ip with intbd LS: Wh lt brn to bf crpxln hd dns cln foss tt no show

Trap Test

DST No. 1(3656'-3740'), Oread Fm.
IH 1779'
IF 16 - 57
IS 1180
FF 60 - 87
FSI 1134
FH 1726
BHT 108 deg. F
Rec: 150' mud(100%) no show

SH: Redbrn gy to gygn occ blk frm blkly carb ip with intbd LS: Wh lt brn to bf crpxln hd dns cln foss tt no show

LS: Mot brn to gy bionicf xln micsuc ip cln foss with moldic & gd vug por with abt dk brn live bldng oil(12% spl) dk goldbrn hydc flor exc explosive cut v ool ip with intpart por and even o stn & live o chrt nodls

T.G.

SH: Gy gygn occ blk frm rthy blkly slty carb ip
LS: Lt to med mot brn crpxln hd dns to tr isol vug por with tr o stn & live o spec gold hydc flor exc gd strmg cut show in <1% spl

SH: Redbrn gy to gygn blkly rthy slty ip

LS: Lt brn tan crpxln hd dns sbchky ip cln foss sndy ip occ tr intxl por with o show(<1% spl) lt mot brn o stn & tr live o spec gold hydc flor exc cut

SH: Redbrn gy to gygn occ blk blkly

TG, C1-C5

50

LS: Brn tan crpxln hd dns cln sil tt no show

SH: Redbrn occ blk gygn rthy ip blkly slty carb ip

6

LS: Lt brn to gy gygn crpxln hd dns sil sbchky ip cln tt no show

3700

3750

3800

3850

ROP (min/ft)

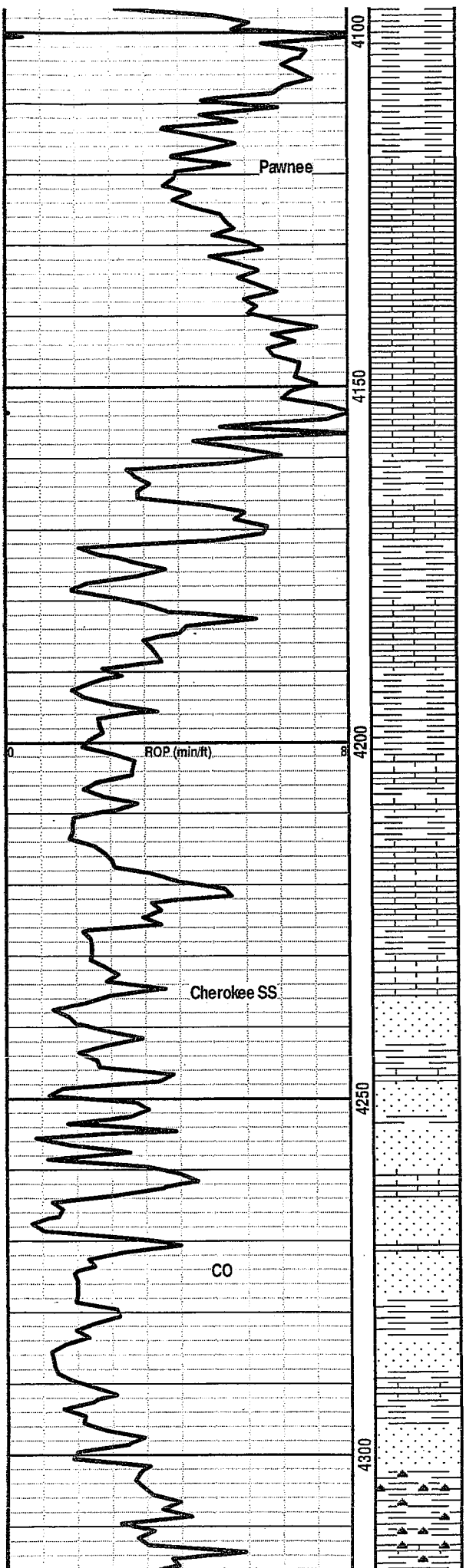
B

C

Oread

Heebner

Lansing



Str. Res. Log to get fully only run to on case
foss ip

LS: Med to lt mot brn gy tan micr f xln hd dns sbchky ip cln foss sndy ip occ vis intxln por no flor no stn or cut

LS: Med to lt mot brn gy tan micr f xln hd dns sbchky ip cln foss sndy ip occ vis intxln por no flor no stn or cut

SH: Redbrn to red gy to gn med brn gn blkly frm wxy to sndy intbd with LS: Med to lt brn to gy bf f xln arg to mrly tt no show

SH: Brick red med gy to brnred blkly rthy wxy occ intbd with LS: aa

LS: Wh lt brn to gy mot red to orng & varic ip crpxln hd dns cln to mrly foss tt no show

SH: Brick red med gy to brnred blkly rthy wxy occ intbd with LS: Wh lt brn to gy mot red to orng & varic ip crpxln hd dns cln to mrly foss tt no show

Abt loose unconsl Qtz & Fldspr grs: Clr pnk red vc/f p srt d sbrnd consl ip with clay & sil cmt occ intgran por no flor no stn or cut intbd with SH: Redbrn to brn brick red gy viol varic ip blkly wxy sndy ip

SH: Redbrn to brn brick red gy viol varic ip blkly wxy sndy ip intbd with SS & LS: aa no show with abt vc p srt d sbrnd to rnd Qtz & Fldspr grs

Abt Chrt(70% spl): Red to orng brn tan mot varic hd xln dolc ip with SH, tr LS

TG, C1-C5

50

Arbuckle

4350

4400

4450

4500

ROP (min/ft)

Reagan SS

Granite wash

DOL: Lt to med brn gy redbrn orng spec gn & glauc ip hd to brit micro to coursey xln ip suc to sl gran hd to brit tr intxln por no flor no stn or cut

DOL: Lt to med brn to redbrn gy to gn mot varic ip micxln suc brit cln glauc v sndy occ vug & intxln por no flor no stn or cut with CHRT: Clr trnsl wh red to orng occ intbd with SH: Mot red to brn orng varic frm wxy hd & dolc ip occ sndy

Chrt: Med brn to gy redbrn hd xln glauc & pyr ip
DOL: Med to lt brn spec gn lt red to gy gn varic micxln suc brit cln to arg v glauc tt to fr intgran por vug por no flor no stn or cut with SH: Mot brn to red redbrn orng varic frm blkly wxy dolc ip

SH: Med to dk redbrn m brn gy gygn redbrn varic blkly wxy v sndy ip
DOL: Mot redbrn orng dk spec gn s&p c xln & granular ip suc to gran v glauc brit ip tt to exc intgxn por vug por no flor no stn or cut CHRT

Unconsl Qtz & Fldspr grs(2% spl): Clr trnsl wh red m/vc mod srt d rmd to sbrnd grs frosted no show tr SS: Clr wh trnsl fu/cl p srt d grs sil & clay cmt intgran por no flor no stn or cut with SH: Dk redbrn aa v wxy

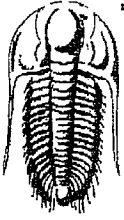
GW: Qtz Fldspr & Biotite(20% spl): Clr trnsl red to orng yel blk gy to gy varic v c ang grs with SH: Dk redbrn to yel gn gy varic v wxy sndy ip

GW: C ang Qtz Fldspr Biot hmbld grs varic bri red yel orng gn clr trnsl dk gn to gy f/vc ang grs with SH: V dk redbrn yel gy to gn varic blkly v wxy

Abt GW: Qtz Fldspr Biot c ang grs with SH: Dk to med redbrn to brn gy gygn mar varic wxy

TG, C1-C5

50



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Slawson Exploration CO INC
 204 N Robinson Ave STE 2300
 Oklahoma City OK 73102
 ATTN: Pete Debenham

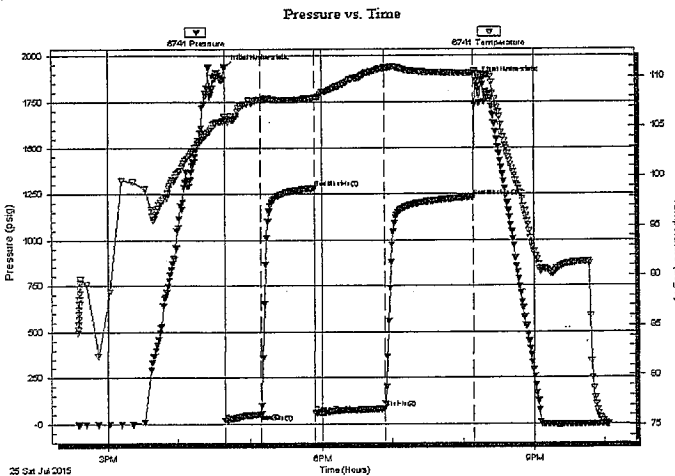
30 1S 30W Decatur KS
 David Ketterl 1-30
 Job Ticket: 62804 DST#: 2
 Test Start: 2015.07.25 @ 14:35:00

GENERAL INFORMATION:

Formation: LKC "D-E"
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 16:39:30
 Tester: Robert Zodrow
 Time Test Ended: 22:04:00
 Unit No: 66
 Interval: 3882.00 ft (KB) To 3960.00 ft (KB) (TVD)
 Reference Elevations: 2774.00 ft (KB)
 Total Depth: 3960.00 ft (KB) (TVD)
 2766.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 6741 Inside
 Press@RunDepth: 83.98 psig @ 3883.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.07.25 End Date: 2015.07.25 Last Calib.: 2015.07.25
 Start Time: 14:35:05 End Time: 22:03:59 Time On Btm: 2015.07.25 @ 16:39:00
 Time Off Btm: 2015.07.25 @ 20:10:30

TEST COMMENT: 30-IF- Blow built to 2 1/4"
 45-ISI- No return
 60-FF- Blow built to 3 3/4"
 75-FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1938.55	106.00	Initial Hydro-static
1	16.85	105.58	Open To Flow (1)
30	52.85	107.68	Shut-In(1)
75	1280.84	107.88	End Shut-In(1)
75	58.74	107.54	Open To Flow (2)
135	83.98	110.90	Shut-In(2)
210	1232.99	110.36	End Shut-In(2)
212	1863.51	110.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	WM with oil spots 30%W 70%M	1.01

* Recovery from multiple tests

Gas Rates

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

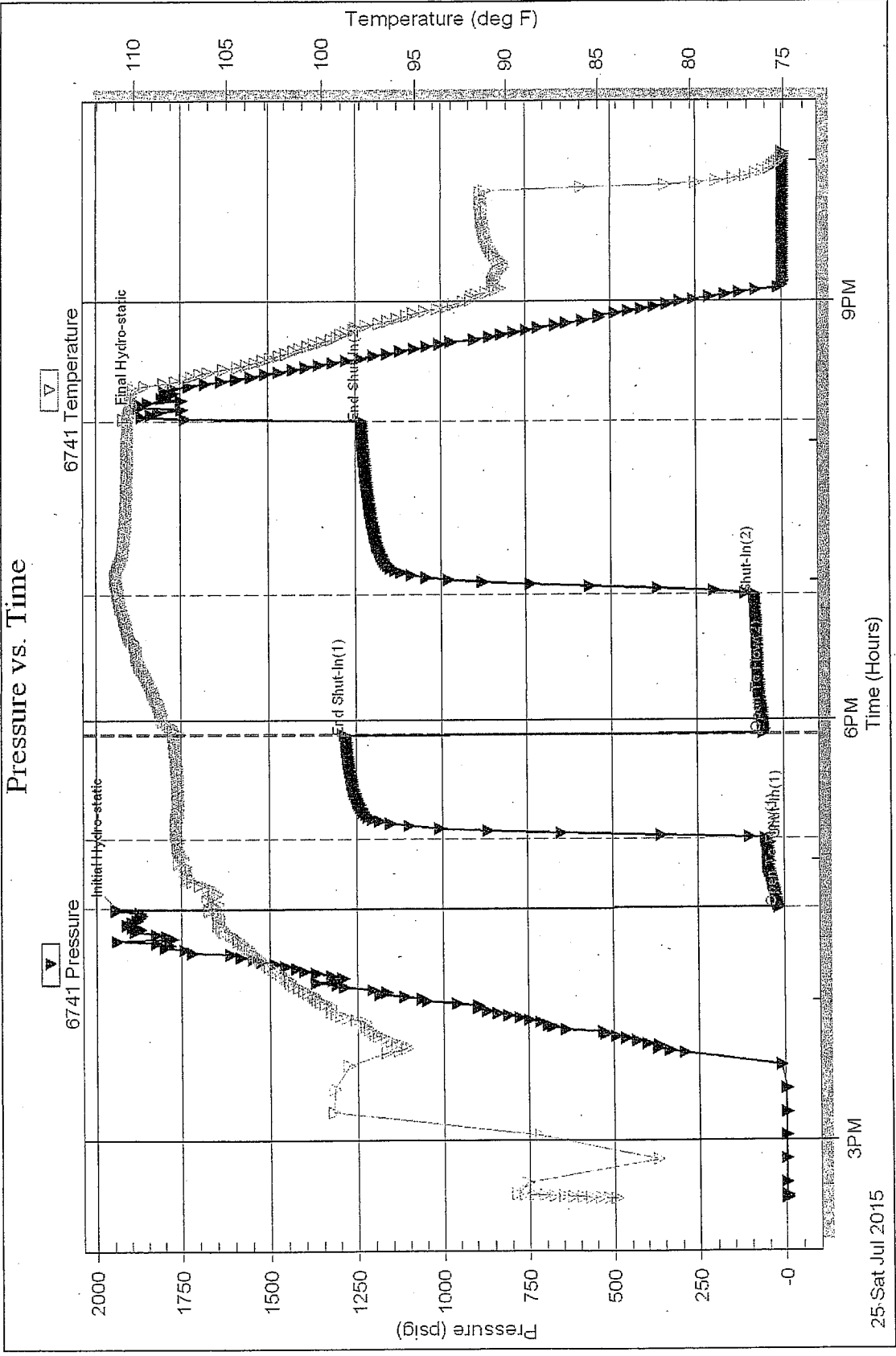
DST Test Number: 2

David Ketterl 1-30

Slawson Exploration CO INC

Inside

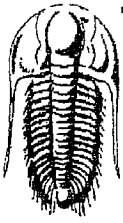
Serial #: 6741



Printed: 2015.07.25 @ 22:23:39

Ref. No: 62804

Trilobite Testing, Inc



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Slawson Exploration CO INC
 204 N Robinson Ave STE 2300
 Oklahoma City OK 73102
 ATTN: Pete Debenham

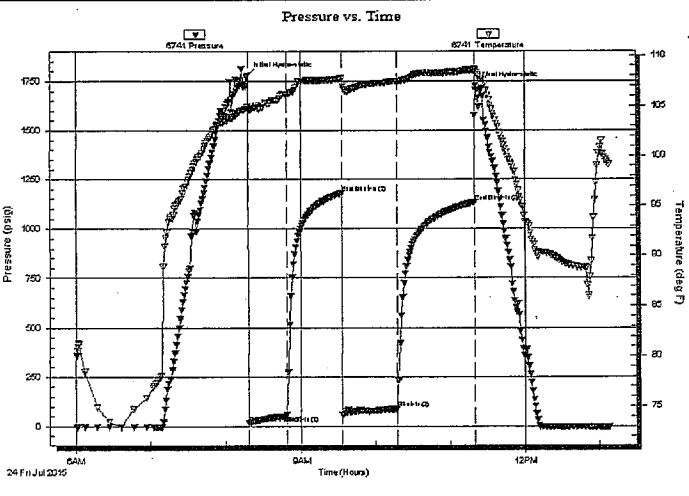
30 1S 30W Decatur KS
 David Ketterl
 Job Ticket: 62803 DST#: 1
 Test Start: 2015.07.24 @ 06:00:00

GENERAL INFORMATION:

Formation: Oread
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:18:00
 Time Test Ended: 13:08:00
 Interval: 3656.00 ft (KB) To 3740.00 ft (KB) (TVD)
 Total Depth: 3740.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Robert Zodrow
 Unit No: 66
 Reference Elevations: 2774.00 ft (KB)
 2766.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6741 Inside
 Press@RunDepth: 87.52 psig @ 3657.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.07.24 End Date: 2015.07.24 Last Calib.: 2015.07.24
 Start Time: 06:00:00 End Time: 13:08:00 Time On Btm: 2015.07.24 @ 08:17:30
 Time Off Btm: 2015.07.24 @ 11:20:00

TEST COMMENT: 30-IF- Blow built to 3"
 45-ISI- No Return
 45-FF- Blow Built to 3"
 60-FSI- No return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1779.35	104.92	Initial Hydro-static
1	15.90	104.47	Open To Flow (1)
31	57.40	106.08	Shut-In(1)
75	1180.60	107.75	End Shut-In(1)
76	60.00	107.15	Open To Flow (2)
120	87.52	107.34	Shut-In(2)
182	1134.37	108.54	End Shut-In(2)
183	1726.87	108.61	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
150.00	Mud 100% M	1.01

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

Serial #: 6741

Inside

Slawson Exploration CO INC

David Ketterl

DST Test Number: 1

Pressure vs. Time

