



KANSAS CORPORATION COMMISSION 1108530
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5455
Name: Crawford Oil & Gas Co LLC
Address 1: PO BOX 1366
Address 2: 1780 JASON DR
City: EL DORADO State: KS Zip: 67042 +
Contact Person: Larry Dale Crawford
Phone: (316) 377-3373
CONTRACTOR: License # 33575
Name: WW Drilling, LLC
Wellsite Geologist: Larry Friend
Purchaser: NCRA

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SIOW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 CM (Coal Bed Methane)
 Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:
Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____
08/09/2012 08/19/2012 09/17/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-063-22032-00-00
Spot Description: _____
SW SE SE NE Sec. 24 Twp. 13 S. R. 31 East West
2617 Feet from North / South Line of Section
622 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Gove
Lease Name: Zimmerman Well #: 1-24
Field Name: Swift Fox
Producing Formation: Lansing-Kansas City and Johnson
Elevation: Ground: 2835 Kelly Bushing: 2840
Total Depth: 4590 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 218 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2292 Feet
If Alternate II completion, cement circulated from: 2292
feet depth to: 0 w/ 475 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 2000 ppm Fluid volume: 400 bbls
Dewatering method used: Evaporated
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

Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Deanna Garrison Date: 01/23/2013



1108530

Operator Name: Crawford Oil & Gas Co LLC Lease Name: Zimmerman Well #: 1-24
Sec. 24 Twp. 13 S. R. 31 [] East [x] West County: Gove

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken [x] Yes [] No [x] Log Formation (Top), Depth and Datum [] Sample
Samples Sent to Geological Survey [x] Yes [] No Name Attached Top Attached Datum Attached
Cores Taken [] Yes [x] No
Electric Log Run [x] Yes [] No
Electric Log Submitted Electronically [x] Yes [] No
List All E. Logs Run: Attached

CASING RECORD [x] New [] Used
Report all strings set-conductor, surface, intermediate, production, etc.
Table with columns: 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
Table with columns: Purpose, Depth Top Bottom, Type of Cement, # Sacks Used, Type and Percent Additives

PERFORATION RECORD - Bridge Plugs Set/Type
Specify Footage of Each Interval Perforated
Table with columns: Shots Per Foot, PERFORATION RECORD, Acid, Fracture, Shot, Cement Squeeze Record, Depth

TUBING RECORD: Size: 2 7/8" Set At: 4495' Packer At: Liner Run: [] Yes [] No
Date of First, Resumed Production, SWD or ENHR: 10/01/2012
Producing Method: [] Flowing [x] Pumping [] Gas Lift [] Other (Explain)
Estimated Production Per 24 Hours: Oil 43 Bbls, Gas Mcf, Water 8 Bbls, Gas-Oil Ratio, Gravity 35

DISPOSITION OF GAS: [] Vented [] Sold [] Used on Lease (If vented, Submit ACO-18.)
METHOD OF COMPLETION: [] Open Hole [] Perf. [] Dually Comp. [] Commingled (Submit ACO-5) [] Other (Specify)
PRODUCTION INTERVAL:

Form	ACO1 - Well Completion
Operator	Crawford Oil & Gas Co LLC
Well Name	Zimmerman 1-24
Doc ID	1108530

All Electric Logs Run

CDL
CNL
PE
MEL
Sonic

Form	ACO1 - Well Completion
Operator	Crawford Oil & Gas Co LLC
Well Name	Zimmerman 1-24
Doc ID	1108530

Tops

Stone Corral	2291	+549
Base	2316	+524
Topeka	3642	-802
Lansing	3904	-1064
BKC	4216	-1376
Cherokee	4419	-1579
Johnson	4465	-1625
Mississippian	4492	-1652

OPERATOR

Company: CRAWFORD OIL AND GAS CO., LLC
 Address: P.O. BOX 1366
 EL DORADO, KS 67042-1366

Contact Geologist:
 Contact Phone Nbr: 316-377-3373
 Well Name: ZIMMERMAN 1-24
 Location: 2617 FSL, 622 FEL, SEC 24-T13S-31W API: 15-063-22032-0000
 Pool: OIL PRODUCER Field: WILDCAT
 State: KANSAS Country: GOVE

Scale 1:240 Imperial

Well Name: ZIMMERMAN 1-24
 Surface Location: 2617 FSL, 622 FEL, SEC 24-T13S-31W
 Bottom Location:
 API: 15-063-22032-0000
 License Number:
 Spud Date: 8/9/2012 Time: 2:45 PM
 Region: NW KANSAS
 Drilling Completed: 8/18/2012 Time: 3:05 AM
 Surface Coordinates: Y = 221587 & X = 1229816
 Bottom Hole Coordinates:
 Ground Elevation: 2835.00ft
 K.B. Elevation: 2840.00ft
 Logged Interval: 3450.00ft To: 4590.00ft
 Total Depth: 4590.00ft
 Formation: MISSISSIPPIAN
 Drilling Fluid Type: CHEMICAL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: 100.422644 Latitude: 38.543656
 N/S Co-ord: Y = 221587
 E/W Co-ord: X = 1229816

CASING SUMMARY

	Surface	Intermediate	Main		
Bit Size	12.25 in		7.88 in		
Hole Size	12.25 in		7.88 in		
	Size	Set At	Type	# of Joints	Drilled Out At
Surf Casing	8.625 in	217 ft		5	
Int Casing					
Prod Casing	5.5 in	4589 ft	15#		8/19/2012 4:00 AM

CASING SEQUENCE

Type	Hole Size	Casing Size	At
SURFACE	12.25 in	8.63	217.00 ft
PRODUCTION	7.88 in	5.50	4589.00 ft

CONTRACTOR

Contractor: WW DRILLING
 Rig #: 8
 Rig Type: DOUBLE
 Spud Date: 8/9/2012 Time: 2:45 PM
 TD Date: 8/18/2012 Time: 3:05 AM
 Rig Release: 8/19/2012 Time: 6:00 AM

LOGGED BY

Company: LARRY P. FRIEND
 Address: 1639 BURNS
 WICHITA, KS 67203-2757

Phone Nbr: 316-265-2228
 Logged By: Geologist

Name:

OPEN HOLE LOGS

Logging Company: SUPERIOR
 Logging Engineer: JEFF LUBBERS
 Truck #:
 Logging Date: 8/18/2012 Time Spent: 5.25
 # Logs Run: 4 # Logs Run Successful: 4

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
DI	4590.00ft	0.00ft	0.00		1
CND W/PE	4590.00ft	3400.00ft	0.00		1
SONIC	4590.00ft	217.00ft	0.00		2
MICRO	4590.00ft	3400.00ft	0.00		2

LOGGING OPERATION SUMMARY

Date	From	To	Description Of Operation
8/13/2012	4590.00ft	0.00ft	

FORMATION DEPTHS

FORMATION TOPS	SAMPLE	LOG	COMPARISON TO: SHAKESPEARE OIL CO., INC. PARSONS 1-27 S/2 SE NE, 27-13S-31W
STONE CORRAL	2291 (+549)	2291 (+549)	+25
BASE	2316 (+524)	2316 (+524)	+26
STOTLER	3510 (-670)	3507 (-667)	+2
TOPEKA	3644 (-804)	3642 (-802)	+4
HEEBNER SHALE	3860 (-1020)	3857 (-1017)	+15
LANSING	3906 (-1066)	3904 (-1064)	+10
MUNCIE CREEK	4050 (-1210)	4047 (-1207)	+19
STARK SHALE	4138 (-1298)	4136 (-1296)	+26
BKC	4220 (-1380)	4216 (-1376)	+24
MARMATON	4242 (-1402)	4238 (-1398)	+31
MYRICK STATION	4373 (-1533)	4369 (-1529)	+37
"CHEROKEE"	4422 (-1582)	4419 (-1579)	+36
JOHNSON ZONE	4466 (-1626)	4465 (-1625)	+39
BS. PENN. LIME	4484 (-1644)	4482 (-1642)	+42
MISSISSIPPIAN	4492 (-1652)	4492 (-1652)	+83

DRILLSTEM TESTS

No	Interval	Formation
1	3927 - 3948	LANSING "C" ZONE
2	3976 - 3993	LANSING "E" ZONE
3	4052 - 4124	KANSAS CITY "H", "I" AND "J" ZONES
4	4136 - 4164	KANSAS CITY "K" ZONE
5	4443 - 4481	JOHNSON ZONE

NOTES

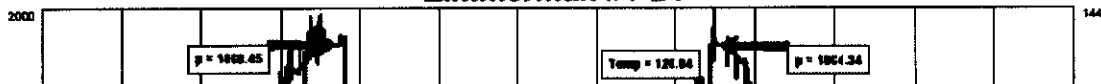
It was decided to run production casing to produce the Johnson Zone and the "J" Zone in the Kansas City.

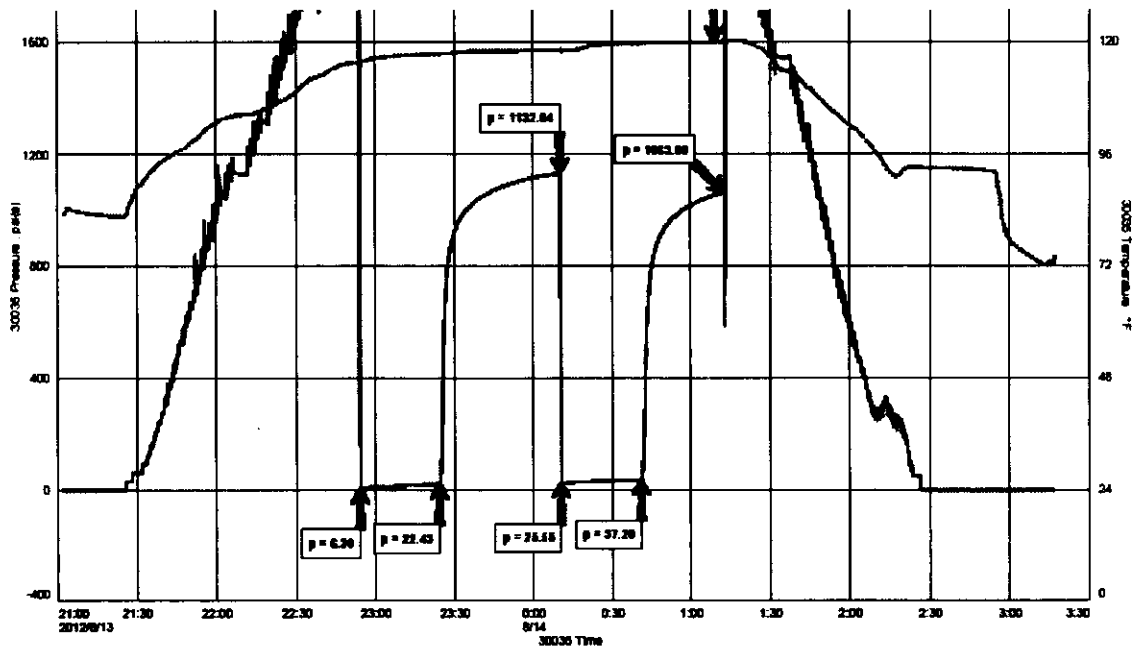
DST #1 CHART - LANSING "C" ZONE

Crawford Oil & Gas Co. LLC
 DST #1 Lansing C 3027-3048
 Start Test Date: 2012/08/13
 Final Test Date: 2012/08/14

Zimmerman #1-24
 Formation: DST #1 Lansing C 3027-3048
 Pool: Wildcat
 Job Number: 50107

Zimmerman #1-24





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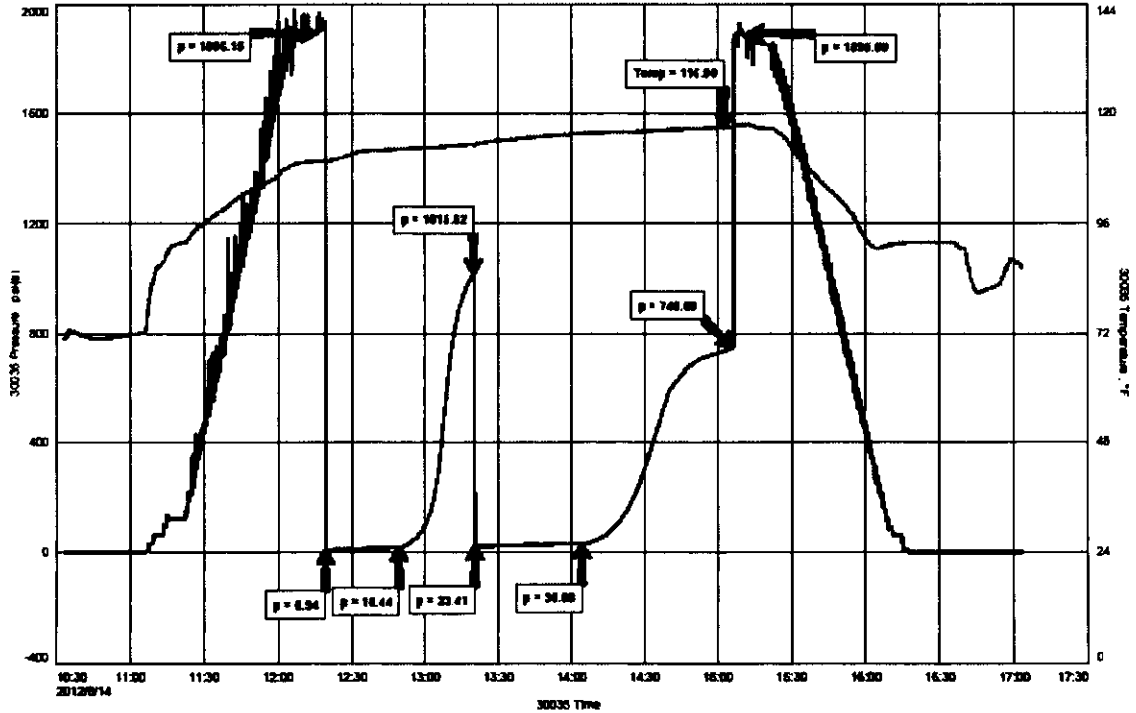
Fast

DST #2 CHART - LANSING "E" ZONE

Crawford Oil & Gas Co LLC
 DST #2 Lansing "E" 3078-3093'
 Start Test Date: 2012/08/14
 Final Test Date: 2012/08/14

Zimmerman #1-24
 Formation: DST #2 Lansing "E" 3078-3093'
 Pool: Wildcat
 Job Number: S0198

Zimmerman #1-24



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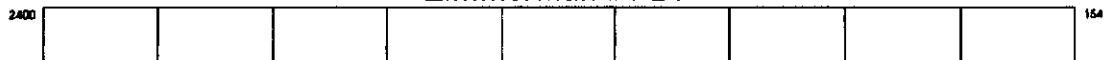
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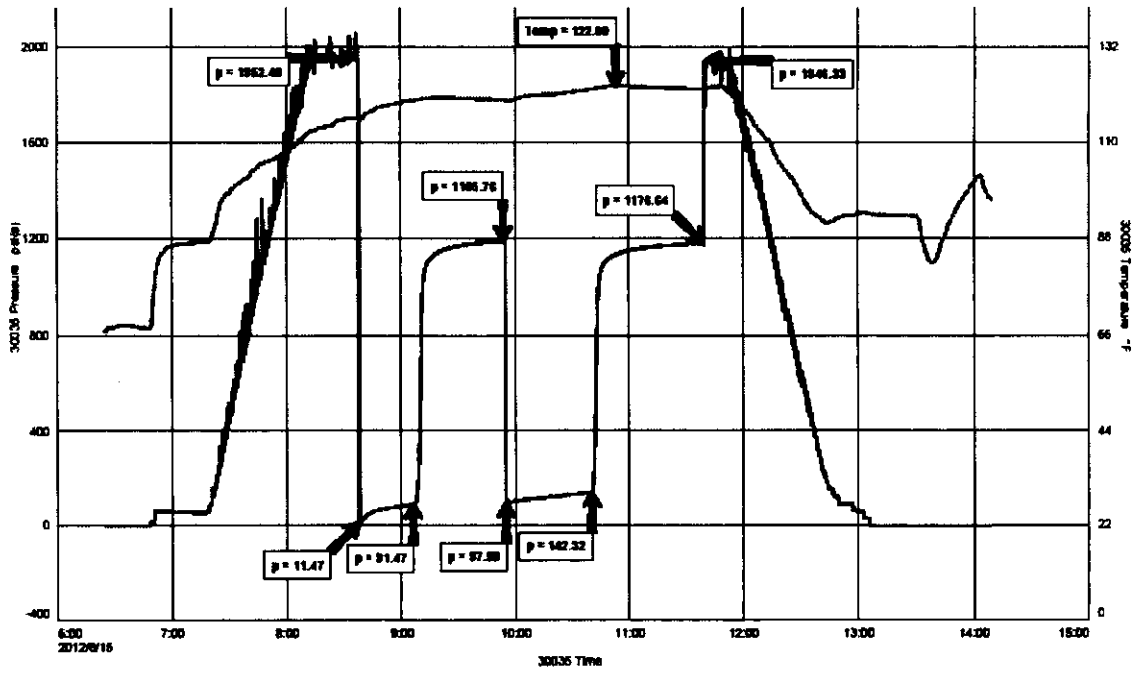
DST #3 CHART - KANSAS CITY "H", "I", "J"

Crawford Oil & Gas Co. LLC
 DST #3 Lansing "H-I" 4052-4124'
 Start Test Date: 2012/08/15
 Final Test Date: 2012/08/15

Zimmerman #1-24
 Formation: DST #3 Lansing "H-I" 4052-4124'
 Pool: Wildcat
 Job Number: S0198

Zimmerman #1-24





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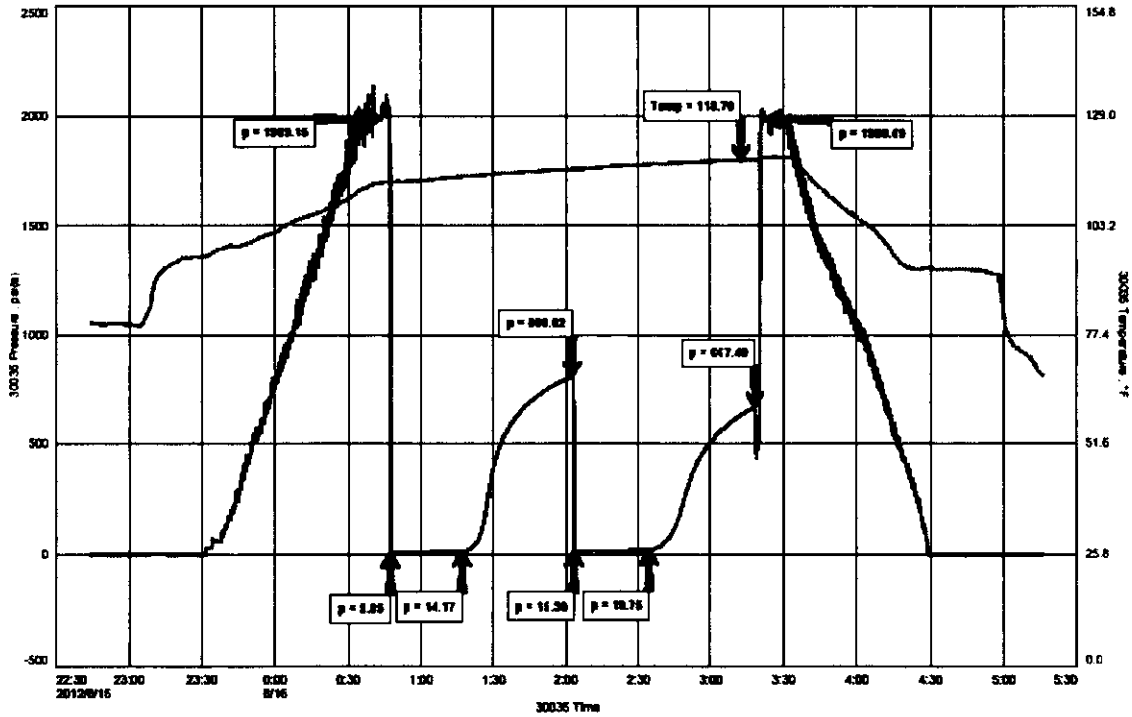
Fast

DST #4 CHART - KANSAS CITY "K"

Crawford Oil & Gas Co LLC
 DST #4 Lansing "K" 4136-4184'
 Start Test Date: 2012/08/16
 Final Test Date: 2012/08/16

Zimmerman # 1-24
 Formation: DST #4 Lansing "K" 4136-4184'
 Pool: Wildcat
 Job Number: 80200

Zimmerman # 1-24



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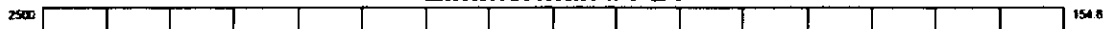
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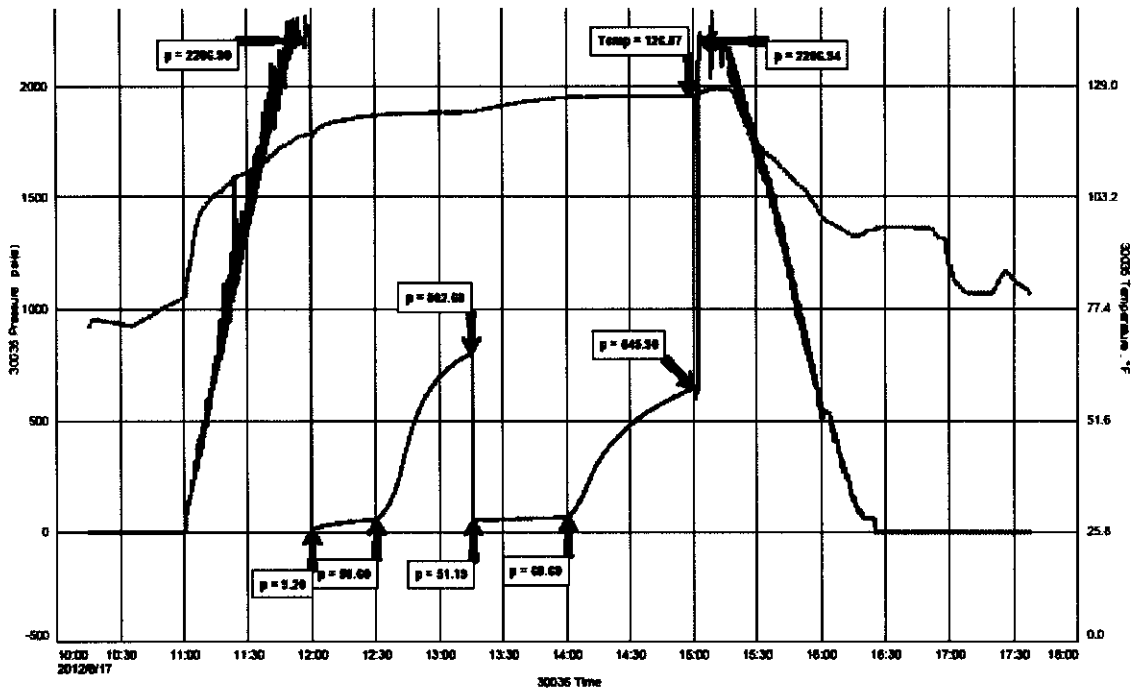
DST #5 CHART - JOHNSON ZONE

Crawford Oil & Gas Co. LLC
 DST #5 Johnson 4443-4481'
 Start Test Date: 2012/08/17
 Final Test Date: 2012/08/17

Zimmerman #1-24
 Formation: DST #5 Johnson 4443-4481'
 Pool: Wildcat
 Job Number: 80201

Zimmerman #1-24





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Fast

ROCK TYPES

- Coal
- Dolsec
- Lmst fw<7
- Lmst fw>
- Ss
- Shgy
- Shcol
- Slst

ACCESSORIES

MINERAL

- Carbonaceous Flakes
- ▲ Chert, dark
- ▲ Dolomitic
- ▲ Siliceous
- ▲ Silty
- ▲ Chert White

FOSSIL

- ◇ Oolite
- Oolites

OTHER SYMBOLS

OIL SHOWS

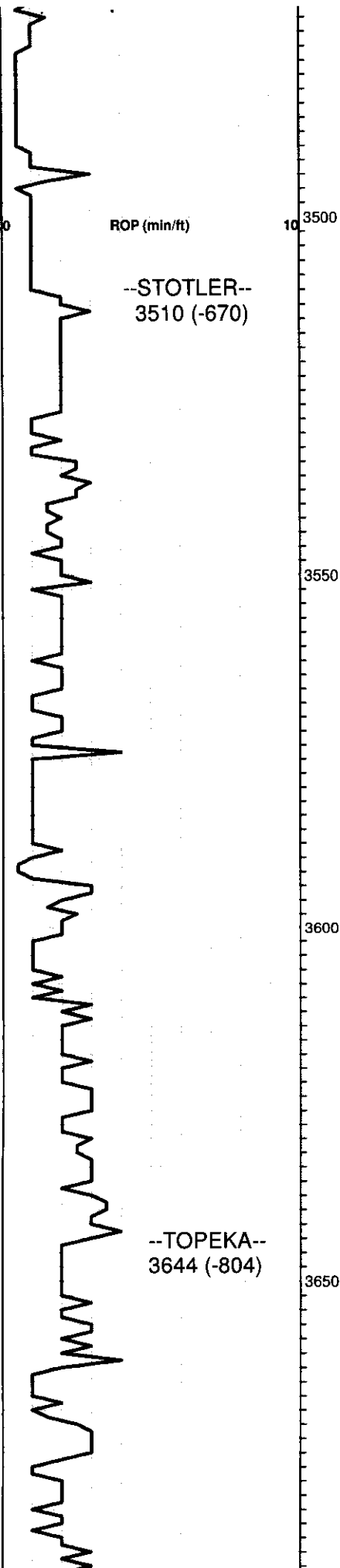
- Even Strn
- Spotted Strn 50 - 75 %
- Spotted Strn 25 - 50 %
- Spotted Strn 1 - 25 %
- Questionable Strn
- Dead Oil Strn
- Fluorescence

INTERVALS

- Core
- DST

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.qrsl.ca)

Curve Track #01 ROP (min/ft)	Depth Intervals	Porosity	Interpreted Lithology	Oil Shows	Geological Descriptions	Comment
1:240 Imperial ROP (min/ft)	Cored Interval DST Interval					DISPLACED MUD @ 3395'. 7:00AM DEPTHS: 8/9/12: SPUD 8/10/12: 288'



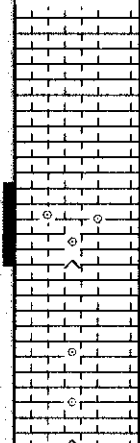
8/11/12: 2170'
 8/12/12: 3285'
 8/13/12: 3900'
 8/14/12: 3982'
 8/15/12: 4124'
 8/16/12: 4164'
 8/17/12: 4481'
 8/18/12: 4590' RTD

DEVIATION SURVEYS:

.75 DEG. @ 218'
 .75 DEG. @ 3948'
 .75 DEG. @ 4590'

MUD @ 3397:

WT: 8.6
 VIS: 57
 FILT: 6.4
 CHLOR: 1,200
 LCM: 1#

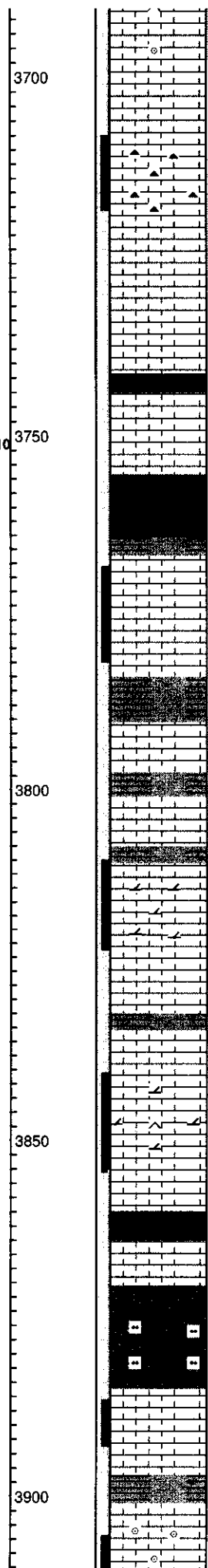
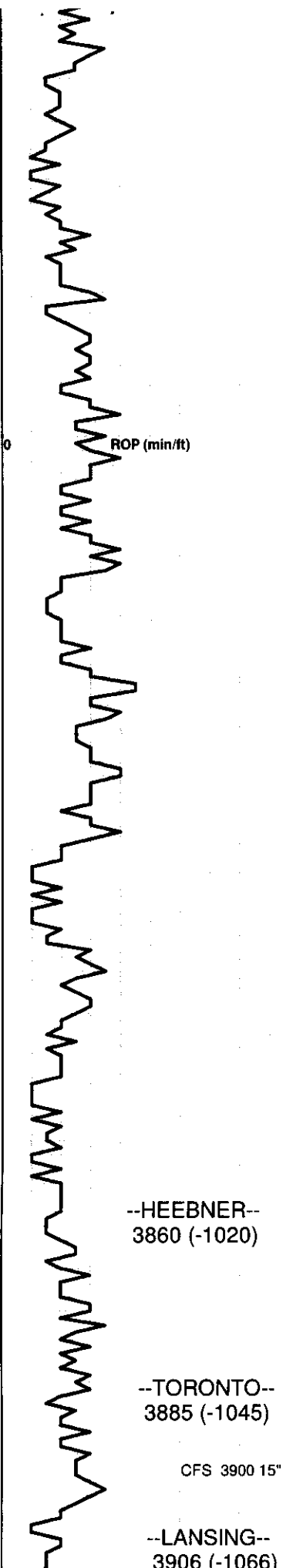


80: TR. LS. TAN, FOSS W/ PR. TR. FR. XLN.
 POR; LS, BRN, VF-FXLN, DSE; NS

100: SM. AMT. LS, TAN, V. OOL / FOSS, SOME
 SLI. CHTY, HD, W/ PR - GD INTER-FOSS. PPT
 - VUG - FOSS. CAST POR; NS

20: LS, TAN, AS ABOVE, V. OOL / FOSS, PR -
 GD POR, SLI. CHTY; AND LS, TAN-BRN, VF-

PARTIALLY PLUGGED BIT,
 PUMP PRESSURE HIGH /
 VARYING, SAMPLES SEEM TO
 BE FAIRLY GOOD.



FXLN, SLI. FOSS, DSE; SOME GRY, LMY SILTSTN; NS

40: CHERT, TAN-BRN, SHARP; TR. FUSILINIDS; SOME FOSS. LS, AS ABV; NS

50: LS, TAN-BRN, V. FOSS. FR. XLN. POR TO LS, BRN, DSE; NS

60: TR. LS, V. FOSS W/ FR. XLN & TR FOSS. CAST. POR TO LS, TAN, FXLN, W/ PR- TR. FR. XLN. POR; NS

70 & 80 & 90: LS, TAN-BRN, DSE; TR. GRY, LMY SILTSTN, TITE - FRIABLE; TR. BLK. SHALE; NS

100: TR. LS, V. FOSS, PR - FR. XLN. POR; NS

10 & 20: LS, TAN-BRN, VF-FXLN, DSE; TR. GRY SHALE.

30: SHALE, GRY, MAROON, GRN; LS, AS ABV & LS, BRN, SLI. FOSS, PR. XLN. POR; NS

40: TAN DOL. LS, FXLN, SUCROSIC, SLI. CHERTY, HARD & SOME CHERT, CRM SHP; NS

50 & 60: SHALE, GRY; LS, TAN-BRN, SLI. FOSS, MOSTLY PR. XLN. POR; SM. AMT. LMY SILTSTN; NS.

70: TR. TAN DOL. LS, SLI. CHTY, HARD; LS, BRN, VFXLN, SOME SLI. FOSS, DSE; SHALE, GRY, GRN; NS

80: SHALE, BLK; LS, TAN-BRN, VF-FXLN, SOME SLI. FOSS, DSE TO PR. XLN. POR; NS

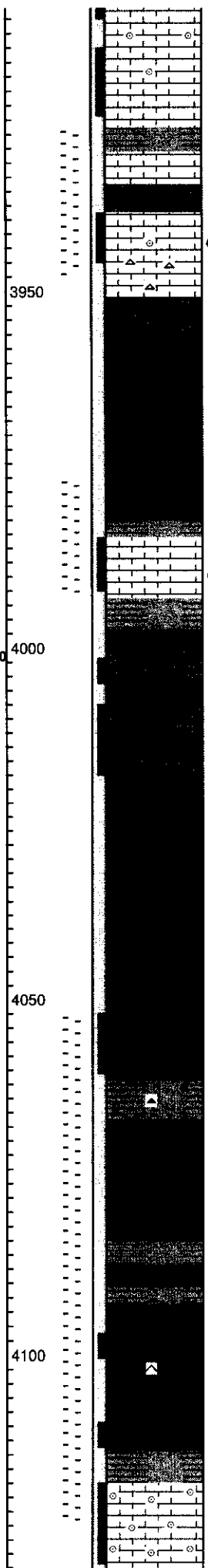
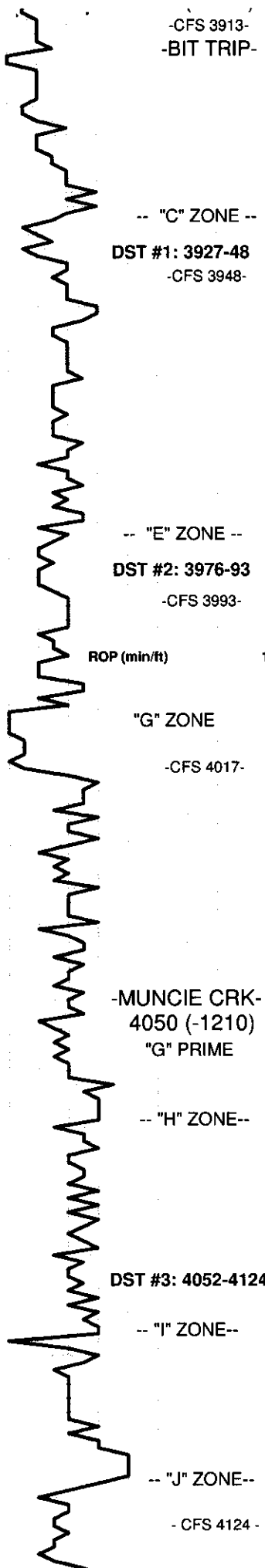
90: LS, BRN, SLI. FOSS, DSE; GRY, LMY SILTSTONE; TR. BLK. SHALE.

100: SHALE, MAROON AND SOME GRY, LMY. SILTSTONE.

15" CIRC: LS, TAN, FXLN, TR. OOLITIC, PR - FR. XLN. POR; TR. TAN CHERT; NS

3913 CIRC: TR. LS, V. OOLITIC (FN-MED OOL) / FOSS, W/ FR. XLN & PR - GD OOLICASTIC POR; NS NO FLUOR.

MUD @ 3931:
 WT: 9.0
 VIS: 50
 FILT: 6.4
 CHLOR: 2,500
 LCM: 1#



40: LS, TAN-BRN, VF-FXLN, TR. OOLITIC, TR. PR. OOLICASTIC-VUG. POR; NS

48: SHALE, GRY, MAROON; TR. BRN, SST, VF-FN GRND, GLAUC, FR. POR; TR. HARD SILTSTN

48 CIRC: TR. (5 PCS/TRAY) LS CRM, V. FOSS / FRAG, SLI CALCITIC, W/ PR - GD, INTER-FOSS, PPT - VUG- FOSS CAST. POR, FSFO, SPTY BRN SAT. STN ASSOC W/ POR; MUCH CHERT, CRM-TAN, SHARP / SLI WEATH, SLI. PYRITIC W/ NS; NO ODOR

70: SHALE, GRY, MAROON; LT. GRN. SILTSTN; AND LS, TAN-BRN, VFXLN, DSE TO SOME CRM CHALKY; NS

80 & 90: MOSTLY LS, TAN, VF-FXLN, CALCITIC, W/ PR. TO SOME FR. XLN. POR; NS

93 CIRC: TR. LS, VF-FXLN, W/ PR. TO TR. GD. XLN, PPT & VUG. POR, PR. PARTIAL TO TR. GD TOTAL SAT. STN, SFO&G, FR. ODOR.

4017: 10" CIRC: DOL, TAN, FXLN, SUC, SLI. CHTY, PR - FR. XLN. POR; NS

4017 CIRC: DOL, TAN, FXLN, SUC, SLI. CHTY, SOME SLI. PEPPERED W/ PYRITE, PR - FR. XLN. POR, V. R. TR. GD. PPT-VUG - FOSS. CAST. POR; NS

30: LS, CRM - TAN, FXLN, PR. VIS. POR, TR. IS CHLKY; NS

40 & 50: LS, GRY-TAN, VF FXLN, V. SLI. FOSS, MOSTLY DSE; NS

60: SOME GRY & BLK SHALE; TR. PYRITE; LS, AS ABOVE.

70: LS, DK. BRN, VFXLN, DSE TO MUCH CRM, WEATH, SLI. CHLKY, TR. FO, TR. SPTY FLUOR IN SOFT, SLI. CHLKY LS; TR. BLK SHALE.

80: BRN LS AS ABV, SLI. FOSS, DSE TO WEATH: SHALE, GRY-BLK; TR. BRN CHERT; TR. CSELY FRAG / FOSS LS, DSE; NS

90: LS, TAN-BRN, VF-FXLN, DSE TO PR. XLN. POR; SM. AMT. WEATH, SLI. CHLKY, 1 PC SOFT, W/ SPTY FLUOR; SLI. ODOR

100: LS, TAN-BRN, VFXLN, V. SLI. FOSS, DSE; TR. GRY SHALE; NS

10: MUCH LT. GRN, LMY SILTSTN; FEW PCS. CHERTY LS, TAN, W/ PR. PPT-VUG. POR, W/ MUCH CALCITE FILL, SSFO, FSG, SPTY. SAT. STN; SHALE, GRY; SLI. ODOR

20: TR. LS, CRM-TAN, VF-FXLN, W/ PR. TR. PPT-VUG. POR, PR. SPTY. BRN. SAT. STN, NFO; SLI. ODOR

24 CIRC: LS, GRY, OOLITIC W/ PR.- GD. OOLIC POR, FSFO (NICE LT. BRN OIL), SPTY PARTIAL BRN SAT. STN; GRY & BLK SHALE; FR. ODOR

40: LS, AS ABV, GRY-TAN, OOLITIC W/ PR-GD.

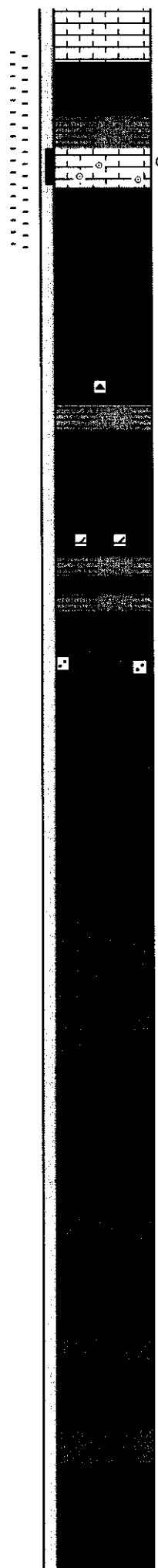
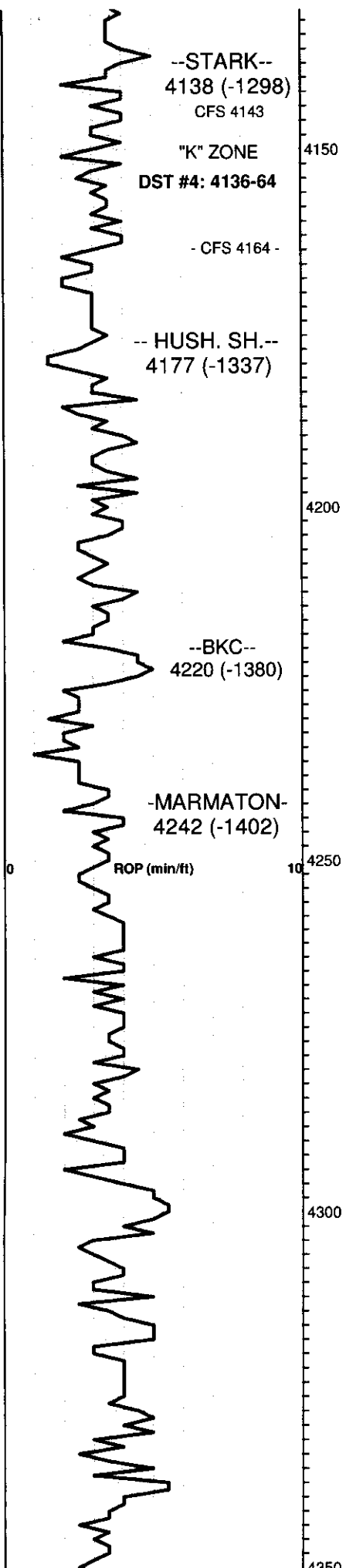
BIT TRIP 3910, FLOAT PIN WAS BROKEN OFF & LAYING OVER JETS.

DST #1: 3927-3948 (LANSING "C")
TIMES: 30-45-30-30
IF: BLOW BLT TO 1/2".
FF: NO BLOW
REC: 63' DRLG MUD, NS
IFP: 6-22#, FFP: 26-37#
SIP: 1132-1063#
HP: 1869-1864#
MAX TEMP: 120 F.
SEE CHART ABOVE.
 PIPE STRAP @ 3948 = 2.33' SHORT TO BOARD.

DST #2: 3976-3993 (LANSING "E" ZONE)
TIMES: 30-30-45-60
IF: 1/2" BLOW DIED IN 27"
FF: WEAK SURF. BLOW.
REC: 60' OCM (36% OIL)
IFP: 7-18#, FFP: 23-31#
SIP: 1016-747#
HP: 1896-1896#
MAX. TEMP: 117 F.
SEE CHART ABOVE.

MUD @ 3993:
 WT: 9.2
 VIS: 55
 FILT: 6.0
 CHLOR: 2,000
 LCM: 2#

DST #3: 4052-4124 (KS CITY "H", "I" & "J")
TIMES: 30-45-45-60
IF: BLOW OFF BTM IN 14"
ISI: .5" BLOWBACK
FF: BLOW OFF BTM 11.5"
FSI: 2" BLOWBACK
REC: 189' GAS IN PIPE, 408' TOTAL FLUID:
219' HO&GCM (20%G, 35% O, 45%M),
189' MCGO (10%G, 67%O, 23%M), NO WATER
IFP: 11-91#, FFP: 98-142#
SIP: 1186-1177#
HP: 1952-1946#
MAX. TEMP: 123 F.
SEE CHART ABOVE.
 MUD @ 4124:
 WT: 9.2
 VIS: 60



OOLITIC. POR; NS

4143 CIRC: SHALE, BLK & LS, DK. BRN, VFXLN, DSE; NS

4164: 5" CIRC: LS, CRM, FXLN, V. OOLITIC W/ PR. TR. INTER-OOL. XLN, & PPT. POR, & RARE TR. OOLIC. POR, ONLY TR. FO, V. PR. SPTY STN, SEV. PCS W/ SPTY FLUOR; SLI. ODOR.

4164: 30" CIRC: LS, BRN, VFXLN, DSE; NS

80 & 90: LS, AS ABV. & SOME LS, CRM, WEATH., SLI. CHLKY; BLK SHALE IN 90; NS

100: LS, DK BRN, VF-FXLN, DSE TO SOME WEATH, SLI. CHLKY; SHALE, BLK; TR. CHERT & SILTSTONE; NS

10: LS, BRN, VFXLN, SLI. FOSS, DSE TO SOME WEATH, SLI. CHLKY; SHALE, GRY; NS

20 & 30: LS, TAN-BRN, VFXLN, DSE, SM. AMT. SLI. SUCROSIC/ DOLOMITIC W/ PR - FR. XLN. POR; SHALE, GRY; NS

40: SHALE, GRY, MAROON, GRN; TR. LMY SST, VFN-FN GRND, CLR. & LS. AS ABV.; NS

50: MAROON & GRY LMY SILTSTONE; MAROON & GRY SHALE.

60: LS, TAN-BRN, VF-FXLN, SOME CALCITIC & SLI. FOSS. W/ PR. VIS. POR; NS

70: LS, BRN, VFXLN, DSE TO SOME WEATH. , CRM SLI. CHLKY; NS

80: SHALE, MAROON, GRY & GRN.

90: LS, TAN-BRN, VFXLN, SOME FOSS./ OOLITIC, DSE; AND SHALE AS ABV.; NS

100: LS, TAN-BRN, VFXLN, TR. CALCITE FILLED VUGS, DSE; NS

10 & 20 & 30: LS, TAN-BRN, VFXLN, SLI. FOSS, DSE, SOME SLI. CHTY; TR. LOOSE CRINOID; SHALE, GRY & MAROON; NS

40: LS, DULL BRN, SLI. SUCROSIC W/ PR. VIS. POR; AND AS ABV.; NS

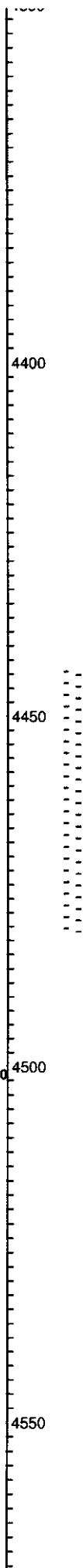
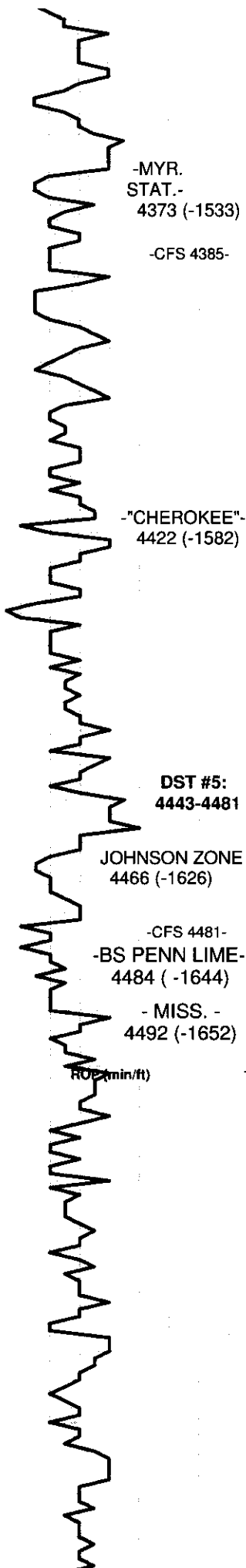
50: MUCH SHALE, MAROON, GRY, GRN; TR. LS, TAN, FXLN W. PR- FR. XLN. POR; NS

60: LS, TAN, VFXLN, DSE; NS

VIS. 60
 FILT: 6.4
 CHLOR: 2,000
 LCM: 2#

DST #4: 4136-4164
(KANSAS CITY "K" ZONE)
TIMES: 30-45-30-45
IF: .5" BLOW, DIED IN 25"
FF: NO BLOW
REC: 15' SOSM (2%O, 98% M)
IFP: 6-14#, FFP: 15-20#
SIP: 808-667#
HP: 1989-1989#
MAX. TEMP: 119 F.
SEE CHART ABOVE.

MUD @ 4234:
 WT: 9.1
 VIS: 65
 FILT: 6.0
 PH: 10.5
 CHLOR: 2,300
 LCM: 1.5#



70: LS, BRN, VFXLN, DSE; SHALE, BLK; NS

80: SHALE, BLK; LS, DK. BRN, VFXLN, SLI. FOSS, DSE; NS

85: CIRC: LS, TAN-BRN, VF-FXLN, TR. OOLITIC, SOME SLI. WEATH, CRM W/ RARE TR. PPT-VUG. POR, V. R. TR. FO, TR. PR. SPTY. OIL STN; NO ODOR

10: SHALE, BLK; TR. BRN, OOLITIC CHERT.

20: LS, TAN, V. FOSS. TO V. OOLITIC, CHTY, HARD, NO POR; SM. AMT. CHERT, BRN, SHP; AND LS, BRN, VFXLN, DSE; NS

30: LS, BRN, VFXLN, DSE; TR. CHERTY, FOSS. LS AS ABV; TR. CHERT, BRN; NS

40: SHALE, BLK; AND LS, BRN, OOLITIC, DSE TO SOME W/ FR. XLN. POR; NS

50: LS, AS ABOVE; NS

60: LS, BRN, VFXLN, DSE TO SM. AMT. WEATH., SLI. CHLKY; TR. V. COLORED SHALE; NS

70: LS, TAN-BRN, VFXLN, DSE, SHALE, GRY-BLK; TR. GRY, SILTSTONE; NS

80 & 20" CIRC: LS, BRN, VFXLN, SLI. CALCITIC W/ PR. SPTY VUG POR. TO TR. GD. XLN & VUG. POR, GSFO (BLDG), SPTY TO TOTAL DK. BRN. SAT, STN; FR. ODOR

40: LS, TAN-BRN, VFXLN TO SLI. CHLKY, SFO, PR. SPTY STN, LOOKS TITE.

100: SST, GRN, GRY, TAN, VFN-FN GRND, TITE- FRIABLE & V. COLORED SHALE; NS

10: SST. MUSTARD-TAN, V. LMY TO SLI. SDY LS, BRN VFXLN, SLI. CHTY, DSE - SOME, FAINTLY OOLITIC; NS

20: LS, BRN, CHERTY, SMOOTH, DSE; AND AS ABV; NS

30: LS, TAN, VF-FXLN, OOLITIC (MUCH FAINTLY OOLITIC, RE-XTALIZED), ARENACEOUS, DSE TO FR. XLN. POR; NS

40: LS, BRN, VFXLN, DSE; AND LS, OOL. / ARENACEOUS W/ FR. XLN POR. AS ABV; NS

50: LS, TAN-BRN, V. SLI. GLAUC, VF-FXLN, OOL./ AREN. W/ PR. XLN. POR; SM. AMT. GRN - MUSTARD DOLOMITE, FXLN, PR. POR; NS

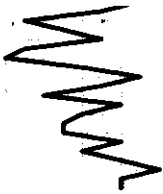
60: OOL. / AREN. LS, AS ABV W/ MOSTLY PR. XLN. POR; NS

70: SOME BRN TO MUSTARD DOLOMITE, PR. XLN. POR; NS

80: LS, BRN, VF-FXLN, OOL./ AREN. W/ PR. - TR. FR. XLN. POR, R. TR. BRN. CARBONACEOUS MAT.; TR. DOL. LS, DSE; SM. AMT. CHERT, GRY-BRN, SHP; NS, NO CUT

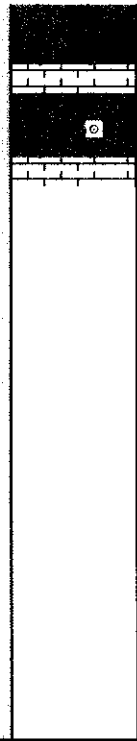
DST #5: 4443-4481 (JOHNSON ZONE)
TIMES: 30-45-45-60
IF: BLOW BLT TO 10.5"
ISI: NO BLOWBACK
FF: BLOW OFF BTM IN 16"
FSI: SURF. BLOWBACK
REC: 337' GAS IN PIPE,
167' TOTAL FLUID:
2' CO (27 GRAV. @ 60 F.),
165' SGCMO (5%G, 50%O,
45%M).
IFP: 9-56#, FFP: 51-70#
SIP: 803-646#
HP: 2207-2207#
MAX. TEMP: 127 F.
SEE CHART ABOVE.

MUD @ 4481:
 WT: 9.4
 VIS: 60
 FILT: 7.2
 PH: 10.5
 CHLOR: 2,000
 LCM: 1#



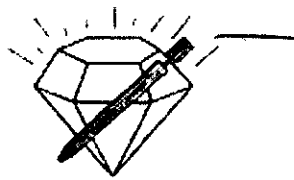
RTD 4590
LTD 4590

4600



90: DOL. BRN./ MOTTLED GRY, FXLN, SUC,
SOME FOSS, PR. - TO GD. XLN. POR & SCAT.
TR. FR.-GD. FOSS. CAST POR; NS, NO
FLUOR.

90: CIRC: DOL, BRN / MOTTLED GRY, FXLN,
SUC, TR. OOL, PR-FR. XLN. POR & R. TR.
FOSS. CAST. POR; NS, NO FLUOR.



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 30035.D0197

Company Crawford Oil & Gas Company, LLC Lease & Well No Zimmerman No 1-24
 Elevation 2835 GL Formation Lansing "C" Effective Pay _____ Ft Ticket No. S0197
 Date 8-13-12 Sec. 24 Twp. 13S Range 31W County Gove State Kansas
 Test Approved By Larry P. Friend Diamond Representative Jacob McCallie

Formation Test No. 1 Interval Tested from 3,927 ft to 3,948 ft Total Depth 3,948 ft
 Packer Depth 3,922 ft Size 6 3/4 in Packer Depth _____ ft Size _____ in.
 Packer Depth 3,927 ft Size 6 3/4 in Packer Depth _____ ft Size _____ in.
 Depth of Selective Zone Set _____ ft

Top Recorder Depth (Inside) 3,912 ft Recorder Number 30035 Cap. 10,000 psi
 Bottom Recorder Depth (Outside) 3,945 ft Recorder Number 3851 Cap. 5,700 psi
 Below Straddle Recorder Depth _____ ft Recorder Number _____ Cap. _____ psi

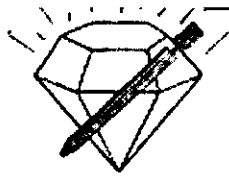
Drilling Contractor WW Drilling, LLC - Rig 8 Drill Collar Length 124 ft I.D. 2 1/4 in.
 Mud Type Chemical Viscosity 50 Weight Pipe Length _____ ft I.D. _____ in.
 Weight 90 Water Loss 6.4 cc. Drill Pipe Length 3,774 ft I.D. 3 1/2 in.
 Chlorides 2,500 P.P.M. Test Tool Length 29 ft Tool Size 3 1/2-IF in.
 Jars: Make Sterling Serial Number Not Run Anchor Length 21 ft Size 4 1/2-FH in.
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in Bottom Choke Size 5/8 in.
 Main Hole Size 7 7/8 in Tool Joint Size 4 1/2-XH in.

Blow, 1st Open: Weak, surface blow increasing to 1/2 in in 30 mins. No blow back during shut-in
 2nd Open: No Blow. No Build. No blow back during shut-in

Recovered 63 ft. of drilling mud = 309960 bbls (Grind out: 100%-mud)
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks Tool Sample Grind Out: 100%-drilling mud

Time Set Packer(s) 10:54 P.M. Time Started off Bottom 1:09 A.M. Maximum Temperature 120°
 Initial Hydrostatic Pressure _____ (A) 1869 P.S.I.
 Initial Flow Period _____ Minutes 30 (B) 6 P.S.I. to (C) 22 P.S.I.
 Initial Closed In Period _____ Minutes 45 (D) 1132 P.S.I.
 Final Flow Period _____ Minutes 30 (E) 26 P.S.I. to (F) 37 P.S.I.
 Final Closed In Period _____ Minutes 30 (G) 1063 P.S.I.
 Final Hydrostatic Pressure _____ (H) 1864 P.S.I.



DIAMOND TESTING

PO Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 30035 D0198

Company Crawford Oil & Gas Company, LLC Lease & Well No Zimmerman No. 1-24
 Elevation 2835 GL Formation Lansing "E" Effective Pay _____ Ft Ticket No. S0198
 Date 8-14-12 Sec 24 Twp. 13S Range 31W County Gove State Kansas
 Test Approved By Larry P. Friend Diamond Representative Jacob McCallie

Formation Test No. 2 Interval Tested from 3,976 ft. to 3,993 ft. Total Depth 3,993 ft
 Packer Depth 3,971 ft Size 6 3/4 in. Packer Depth _____ ft Size _____ in.
 Packer Depth 3,976 ft Size 6 3/4 in. Packer Depth _____ ft Size _____ in.
 Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 3,961 ft. Recorder Number 30035 Cap. 10,000 psi
 Bottom Recorder Depth (Outside) 3,990 ft. Recorder Number 385 Cap. 5,700 psi
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi

Drilling Contractor WW Drilling, LLC - Rig 8 Drill Collar Length 124 ft I.D. 2 1/4 in
 Mud Type Chemical Viscosity 55 Weight Pipe Length _____ ft I.D. _____ in
 Weight 9.2 Water Loss 60 cc. Drill Pipe Length 3,823 ft I.D. 3 1/2 in
 Chlorides 2,000 PPM Test Tool Length 29 ft Tool Size 3 1/2-FH in.
 Jars: Make Sterling Serial Number Not Run Anchor Length 17 ft Size 4 1/2-FH in.
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in Bottom Choke Size 5/8 in.
 Main Hole Size 7 7/8 in Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Weak, surface blow. Died in 28 mins. No blow back during shut-in

2nd Open. No blow increasing to a weak surface blow. No blow back during shut-in

Recovered 60 ft of oily mud = 295200 bbs (Grind out: 36% oil 64% mud)

Recovered _____ ft. of _____

Recovered _____ ft. of _____

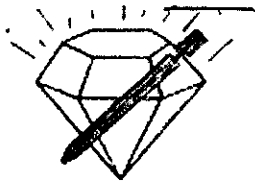
Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks Tool Sample Grind Out: 22%-oil; 78%-mud

Time Set Packer(s) 12:19 P.M. Time Started off Bottom 3:04 P.M. Maximum Temperature 117°
 Initial Hydrostatic Pressure _____ (A) 1896 PSI
 Initial Flow Period _____ Minutes 30 (B) 7 PSI to (C) 18 PSI
 Initial Closed In Period _____ Minutes 30 (D) 1016 PSI
 Final Flow Period _____ Minutes 45 (E) 23 PSI to (F) 31 PSI
 Final Closed In Period _____ Minutes 60 (G) 747 PSI
 Final Hydrostatic Pressure _____ (H) 1896 PSI



DIAMOND TESTING

P.O. Box 157

Page 1 of 2 Pages

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 30035 D0199

Company Crawford Oil & Gas Company, LLC Lease & Well No Zimmerman No 1-24
 Elevation 2835 GL Formation Lansing "H"- "J" Effective Pay _____ Ft Ticket No S0199
 Date 8-15-12 Sec. 24 Twp. 13S Range 31W County Gove State Kansas
 Test Approved By Larry P. Friend Diamond Representative Jacob McCallie

Formation Test No. 3 Interval Tested from 4,052 ft to 4,124 ft Total Depth 4,124 ft
 Packer Depth 4,047 ft. Size 6 3/4 in. Packer Depth _____ ft Size _____ in.
 Packer Depth 4,052 ft. Size 6 3/4 in. Packer Depth _____ ft Size _____ in.
 Depth of Selective Zone Set _____ ft

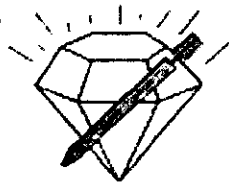
Top Recorder Depth (Inside) 4,037 ft Recorder Number 30035 Cap. 10,000 psi.
 Bottom Recorder Depth (Outside) 4,121 ft Recorder Number 3851 Cap. 5,700 psi.
 Below Straddle Recorder Depth _____ ft Recorder Number _____ Cap. _____ psi

Drilling Contractor VW Drilling, LLC - Rig 8 Drill Collar Length 124 ft I.D. 2 1/4 in
 Mud Type Chemical Viscosity 55 Weight Pipe Length _____ ft I.D. _____ in
 Weight 9.2 Water Loss 6.0 cc Drill Pipe Length 3,899 ft I.D. 3 1/2 in
 Chlorides 2,000 PPM Test Tool Length 29 ft Tool Size 3 1/2-IF in
 Jars Make Sterling Serial Number Not Run Anchor Length 72 ft. Size 4 1/2-FH in.
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open Weak, 1/4 in blow increasing Off bottom of bucket in 14 3/4 mins. Weak, 1/2 in. blow back during shut-in.
 2nd Open Weak, 1/2 in blow increasing Off bottom of bucket in 11 1/2 mins. Weak, 2 in. blow back during shut-in.

Recovered 189 ft of gas in pipe
 Recovered 219 ft of gassy oily mud = 3 116370 bbls (Grnd out: 20%-gas; 35%-oil; 45%-mud)
 Recovered 189 ft of gas cut muddy oil = 1 535030 bbls (Grnd out: 10%-gas; 67%-oil; 23%-mud)
 Recovered 408 ft of TOTAL FLUID = 4 651400 bbls
 Recovered _____ ft of _____
 Recovered _____ ft of _____
 Remarks Tool Sample Grind Out: 50%-oil; 50%-mud

Time Set Packer(s) 8:37 A.M. Time Started off Bottom 11:37 A.M. Maximum Temperature 123°
 Initial Hydrostatic Pressure _____ (A) 1952 P.S.I.
 Initial Flow Period _____ Minutes 30 (B) 11 P.S.I. to (C) 91 P.S.I.
 Initial Closed In Period _____ Minutes 45 (D) 1186 P.S.I.
 Final Flow Period _____ Minutes 45 (E) 98 P.S.I. to (F) 142 P.S.I.
 Final Closed In Period _____ Minutes 60 (G) 1177 P.S.I.
 Final Hydrostatic Pressure _____ (H) 1946 P.S.I.



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 30035 D0200

Company Crawford Oil & Gas Company, LLC Lease & Well No Zimmerman No 1-24
Elevation 2835 GL Formation Lansing "K" Effective Pay Ft Ticket No. S0200
Date 8-16-12 Sec 24 Twp 13S Range 31W County Gove State Kansas
Test Approved By Larry P. Friend Diamond Representative Jacob McCallie

Formation Test No 4 Interval Tested from 4,136 ft to 4,164 ft Total Depth 4,164 ft
Packer Depth 4,131 ft Size 6 3/4 in. Packer Depth ft Size in.
Packer Depth 4,136 ft Size 6 3/4 in. Packer Depth ft Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,121 ft Recorder Number 30035 Cap 10,000 psi
Bottom Recorder Depth (Outside) 4,161 ft Recorder Number 3851 Cap 5,700 psi
Below Straddle Recorder Depth ft Recorder Number Cap psi

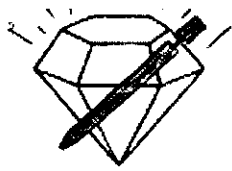
Drilling Contractor WW Drilling, LLC - Rig 8 Drill Collar Length 124 ft I.D. 2 1/4 in
Mud Type Chemical Viscosity 60 Weight Pipe Length ft I.D. in.
Weight 9.2 Water Loss 6.4 cc Drill Pipe Length 3,983 ft I.D. 3 1/2 in
Chlorides 2,000 P.P.M. Test Tool Length 29 ft Tool Size 3 1/2-IF in
Jars: Make Sterling Serial Number Not Run Anchor Length 28 ft Size 4 1/2-FH in
Did Well Flow? No Reversed Out No Surface Choke Size 1 in Bottom Choke Size 5/8 in
Main Hole Size 7 7/8 in Tool Joint Size 4 1/2-XH in

Blow: 1st Open Weak surface blow. Died in 25 mins. No blow back during shut-in
2nd Open No Blow. No Build. No blow back during shut-in

Recovered 15 ft of slightly oil specked mud = 073800 bbls (Grind out 2%-oil 98% mud)
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks Tool Sample Grind Out. 4%-oil; 96%-mud

Time Set Packer(s) 12:47 A M Time Started off Bottom 3:17 A M Maximum Temperature 119°
Initial Hydrostatic Pressure (A) 1989 PSI
Initial Flow Period Minutes 30 (B) 6 P.S.I. to (C) 14 P.S.I.
Initial Closed In Period Minutes 45 (D) 808 P.S.I.
Final Flow Period Minutes 30 (E) 15 P.S.I. to (F) 20 P.S.I.
Final Closed In Period Minutes 45 (G) 667 P.S.I.
Final Hydrostatic Pressure (H) 1989 P.S.I.



DIAMOND TESTING

P.O. Box 157

Page 1 of 8 Pages

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 30035 D0201

Company Crawford Oil & Gas Company, LLC Lease & Well No. Zimmerman No 1-24
 Elevation 2835 GL Formation Johnson Effective Pay _____ Ft Ticket No. S0201
 Date 8-17-12 Sec. 24 Twp 13S Range 31W County Gove State Kansas
 Test Approved By Larry P. Friend Diamond Representative Jacob McCallie

Formation Test No. 5 Interval Tested from 4,443 ft. to 4,481 ft Total Depth 4,481 ft
 Packer Depth 4,438 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Packer Depth 4,443 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 4,428 ft. Recorder Number 30035 Cap. 10,000 psi.
 Bottom Recorder Depth (Outside) 4,478 ft. Recorder Number 3851 Cap. 5,700 psi.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor WW Drilling, LLC - Rig 8 Drill Collar Length 124 ft I.D. 2 1/4 in.
 Mud Type Chemical Viscosity 60 Weight Pipe Length _____ ft I.D. _____ in.
 Weight 9.4 Water Loss 7.2 cc. Drill Pipe Length 4,290 ft I.D. 3 1/2 in.
 Chlorides 2,000 P.P.M. Test Tool Length 29 ft Tool Size 3 1/2-4F in.
 Jars: Make Sterling Serial Number Not Run Anchor Length 38 ft Size 4 1/2-FH in.
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open. Weak. 1/4 in. blow increasing to 10 1/2 ins. in 30 mins. No blow back during shut-in.
 2nd Open. Weak. 2 in. blow increasing Off bottom of bucket in 16 mins. Weak surface blow back during shut-in.

Recovered 337 ft. of gas in pipe
 Recovered 2 ft. of clean oil = .028460 bbls. (Grind out 100%-oil) Gravity 27 @ 60"
 Recovered 165 ft. of gas cut muddy oil = 1.193510 bbls. (Grind out 5%-gas 50%-oil; 45%-mud)
 Recovered 167 ft. of TOTAL FLUID = 1.221970 bbls
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks Tool Sample Grind Out: 55%-oil; 45%-mud

Time Set Packer(s) 12:00 P.M. Time Started off Bottom 3:00 P.M. Maximum Temperature 127°
 Initial Hydrostatic Pressure _____ (A) 2207 P.S.I.
 Initial Flow Period _____ Minutes 30 (B) 9 P.S.I. to (C) 56 P.S.I.
 Initial Closed In Period _____ Minutes 45 (D) 803 P.S.I.
 Final Flow Period _____ Minutes 45 (E) 51 P.S.I. to (F) 70 P.S.I.
 Final Closed In Period _____ Minutes 60 (G) 646 P.S.I.
 Final Hydrostatic Pressure _____ (H) 2207 P.S.I.

Schippers Oilfield Services LLC

Invoice

Box 900
 KS 67740

Date 8/9/2012

Phone # 785-675-8974 email@ruraltel.net
 785-675-9938

Invoice # 602

Bill To
Crawford Oil and Gas... LLC PO Box 1346 El Dorado, KS 67042

Ship To

P.O. # Zimmerman 1-24
 Terms Net 30

Ship Date 8/15/2012
 Due Date 9/8/2012
 Other

Item	Description	Qty	Price	Amount
Cement chloride	Common calcium chloride	175	15.50	2,712.50
Gel		5	52.00	260.00
Handling of mater	per sack	1	26.00	78.00
Mileage and labor		184	2.15	395.60
Pump truck charge	Tri-plex pump charge	65	18.40	1,196.00
Pump truck mileage	To and From Location	130	1,050.00	1,155.00
Light vehicle mile...	To and From Location	130	6.50	845.00
			2.00	260.00

TAKE 1% DISCOUNT IF PAID WITHIN 20 DAYS. DEDUCT FROM TOTAL.

Subtotal \$6,797.10
Sales Tax (8.05%) \$341.84
Total \$7,138.94
Payments/Credits \$0.00
Balance Due \$7,138.94

Schippers Oilfield Services LLC

*100% 10/20
 6425.05*



CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Charote, KS 66720
620/431-9210 • 1-800-467-8670
Fax 620/431-0012

INVOICE

Invoice # 252159

Invoice Date: 08/20/2012 Terms: 10/10/30,n/30

Page 1

CRAWFORD OIL & GAS LLC
1780 JASON DR
P.O. BOX 1366
EL DORADO KS 67042
() -

ZIMMERMAN 1-24
~~37042~~
24-13-31
08-18-2012
KS

Part Number	Description	Qty	Unit Price	Total
1126	OIL WELL CEMENT	175.00	22.5500	3946.25
1110A	KOL SEAL (50# BAG)	875.00	.5600	490.00
1131	60/40 POZ MIX	475.00	15.1000	7172.50
1118B	PREMIUM GEL / BENTONITE	3272.00	.2500	818.00
1107	FLO-SEAL (25#)	119.00	2.8200	335.58
1144G	MUD FLUSH (SALE)	1000.00	1.0000	1000.00
1142A	KCL SUB MB6875 CC3107 (1	2.00	39.1000	78.20
4159	FLOAT SHOE AFU 5 1/2"	1.00	413.0000	413.00
4130	CENTRALIZER 5 1/2"	10.00	58.0000	580.00
4104	CEMENT BASKET 5 1/2"	3.00	276.0000	828.00
4314	RECIPROCATING SCRATCHERS	40.00	78.0000	3120.00
4283	DV TOOL W/ LATCH DOWN	1.00	3850.0000	3850.00

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-2263.15
9995-130	CEMENT EQUIPMENT DISCOUNT	-407.70

Description	Hours	Unit Price	Total
399 SINGLE PUMP	1.00	3020.00	3020.00
399 EQUIPMENT MILEAGE (ONE WAY)	20.00	5.00	100.00
566 TON MILEAGE DELIVERY	1.00	957.00	957.00

Amount Due 28530.38 if paid after 09/19/2012

Parts:	22631.53	Freight:	.00	Tax:	1639.67	AR	25677.35
Labor:	.00	Misc:	.00	Total:	25677.35		
Sublt:	-2670.85	Supplies:	.00	Change:	.00		

Signed

Date

BARTLESVILLE, OK
918/338-0804

EL DORADO, KS
316/322-7022

EUREKA, KS
620/583-7664

PONCA CITY, OK
580/762-2303

OAK, TX, KS
785/672-2227

OTTAWA, KS
785/242-4044

THAYER, KS
620/339-5269

CHELTEN, WY
307/686-4914