



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 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 #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1095765

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
---	---

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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
---	--	--

API # 15-163-24039-00-00

Operator: Black Diamond Oil, Inc.

Well Name & No: Roy/Gager #3

Location: 2130' FNL & 2280' FWL Section 9-7S-20W

County: Rooks

State: Kansas

Rig No.: 8 Contractor: WW Drilling, LLC

Tool Pusher: Sid Deutscher 785-259-2382

Drill Collars: 14 Size: 6 1/4 x 2 1/4

Rig Phone: 785-259-0816

Make Pump: Emsco D-375

Liner & Stroke: 6 x 14

Spud 5/17/2012 @ 2:30 pm

Approx. TD: 3700 Elevation: 2157

K.B. 2162

KB Hole Complete: 5/21/12 @ 6:15 pm

Mud Co.: Andy's

Mud Engineer: Ken Rupp

Water Pond

Date	05/17/12	05/18/12	05/19/12	05/20/12	05/21/12	05/22/12			
Days	1-spud	2-drlg	3-drlg	4-ctch	5-drlg	6-lddp			
Depth		590	2685	3387	3500	3678			
Ft. Cut		590	2095	702	113	178			
D.T.									
D.T.		.75-wop							
C.T.				3.5	18.5	14			
Bit Wt.	all	15,000	30,000	35,000	35,000				
RPM	100	90	85	85	85				
Pressure	450	500	750	750	775				
SPM	60	58	58	58	58				
Mud Cost			4510	7897	7897	8112			
Mud Wl.		8.8	9.1	9	9.2				
Viscosity		28	28	58	60				
Water Loss				7.6	60				
Chlorides				500	7.6				
L.C.M.				4#	800				
Dev. Sur		.75"-218			3#				
Dev. Sur					1/4"-3387	1"-3678			
Fuel	2200	2050	1700	3100	2900	2600			
Water-Pit		3'	3'	3'	3'	3'			
ACC Bit Hrs.		3	25	43.75	49	58.5			
Formation	sd-sh	sd-sh	sd-sh	sh-lm	sh-lm	sh-lm			
Weather	clear	clear	clear	clear	clear	clear			

No.	Size	Type	Out	Ft.	Hrs.	Cum Hrs.	Bit Cond	Serial #	Tops
1	12 1/4	Smith	218	218	2.75	2.75	RR	102610	
2	7 7/8	Sm - F-27	3678	3460	58.5	61.25	New	PX 3204	
3								60 FPH	
4									

DEPTH	SIZE	SACKS	CEMENT MATERIAL	PLUG DOWN	DRILLED OUT	REMARKS
217	8 5/8	150	Common, 3% cc, 2% gel	7:15 PM	3:15 AM	Quality Cem. Did circulate

NO	INTERVAL	OPEN	SHUT	OPEN	SHUT	RECOVERY
1	3340-3387	30	30	out		2' mud
2	3412-3468	30	30	out		5' mud
3						
4						
5						
6						
7						
8						
9						

Surface Casing Furnished by: Milden delivered 5 joints of 23#, 8 5/8 lally 210.93 set @ 217'.

Remarks: Strap & weld surface by MS. Anhydrite @ 1731-1764'. Displaced @ 2802' (640 bbls), Short trip @ 3887', 35 stands (2.5 hrs), RTD 3680'. Short trip 10 stands (.75 hr). Pipe strap .94 long. LTD 3680' by Superior, logged 3 hrs. Run casing.

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. 965

Date	5-29-12	Sec.	9	Twp.	7	Range	20	County	Revere	State	Kansas	On Location		Finish	1:15PM		
Lease	Pay/Gross		Well No.		3		Location									Old Hwy 249 Logg Rd NW of Simb	
Contractor	WTD Drilling RGS							Owner									To Quality Oilwell Cementing, Inc.
Type Job	Longstring							You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Hole Size	78		T.D.		3678		Charge To									Black Diamond Oil	
Csg.	5' 15 50lb		Depth		3678		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.	42		Shoe Joint		42		Cement Amount Ordered									525 QMDC 4lb 16 50lb	
Meas Line			Displace		865 (R)		500 Gal Mud Clear-48										

EQUIPMENT

Pumptrk	5	No.	Cementor	Stan	Common
			Helper		
Bulktrk	13	No.	Driver	Bret	Poz. Mix
			Driver		
Bulktrk	14	No.	Driver	Paul	Gel.
			Driver		

JOB SERVICES & REMARKS

Remarks:		Calcium
Rat Hole	30-32	Hulls
Mouse Hole		Salt
Centralizers	1 3 5 7 9 11 45	Flowseal
Baskets	2 9 46	Kol-Seal
D/V or Port Collar		Mud CLR 48
30" Rat Hole		CFL-117 or CD110 CAF 38
Land plug @ 1500'		Sand
		Handling
		Mileage

FLOAT EQUIPMENT

Float Hold		Guide Shoe
		Centralizer
	7	Baskets
	3	AFU Inserts
		Float Shoe
		Latch Down

Cement did not Circulate

Thank you

Signature: *[Signature]*

Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

OPERATOR

Company: BLACK DIAMOND OIL, INC.
 Address: P.O. BOX 641
 HAYS, KS 67601

Contact Geologist: KENNETH VEHIGE
 Contact Phone Nbr: (785) 625-5891
 Well Name: ROY/GAGER #3
 Location: NW SE SE NW 9-7S-20W
 Pool:
 State: KANSAS

API: 15-163-24039-0000
 Field: UNNAMED
 Country: USA

Scale 1:240 Imperial

Well Name: ROY/GAGER #3
 Surface Location: NW SE SE NW 9-7S-20W
 Bottom Location:
 API: 15-163-24039-0000
 License Number: 7076
 Spud Date: 5/17/2012 Time: 3:34 PM
 Region: ROOKS
 Drilling Completed: 5/21/2012 Time: 5:18 PM
 Surface Coordinates: 2130 FNL & 2280 FWL
 Bottom Hole Coordinates:
 Ground Elevation: 2157.00ft
 K.B. Elevation: 2162.00ft
 Logged Interval: 217.00ft To: 3680.00ft
 Total Depth: 3678.00ft
 Formation:
 Drilling Fluid Type: FRESH WATER/CHEMICAL GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.5572823 Latitude: 39.4607134
 N/S Co-ord: 2130 FNL
 E/W Co-ord: 2280 FWL

LOGGED BY

Company: SOLUTIONS CONSULTING
 Address: 108 W 35TH
 HAYS, KS 67601

Phone Nbr: (785) 259-3737
 Logged By: Geologist Name: JEFF LAWLER

CONTRACTOR

Contractor: WW DRILLING, LLC
 Rig #: 8
 Rig Type: MUD ROTARY
 Spud Date: 5/17/2012 Time: 3:34 PM
 TD Date: 5/21/2012 Time: 5:18 PM
 Rig Release: 5/22/2012 Time: 12:00 PM

ELEVATIONS

K.B. Elevation: 2162.00ft Ground Elevation: 2157.00ft
 K.B. to Ground: 5.00ft


NOTES

DECISION WAS MADE TO RUN PRODUCTION CASING AND FURTHER EVALUATE ZONES OF INTEREST NOT COVERED IN DRILL STEM TESTS. ONCE THE WELL IS DEEMED NON-COMMERCIAL PLANS ARE TO CONVERT TO AN AUTHORIZED INJECTION WELL.

WELL COMPARISON SHEET

FORMATION	BLACK DIAMOND OIL										NORTHERN PRODUCTION CO.													
	ROY/GAGER #3					ROY/GAGER #2					ROY/GAGER #1				EULA MAE ROY #1									
	NW SW NESW 9-7-20					SE SE NW NW					SW NW NW NE				NW NW SE 6-16-18									
	KB	2162				KB	2153				KB	2159				KB	2193				KB	2182		
LOG TOPS	DEPTH	DATUM	DEPTH	DATUM	CARD/SMPLE TOPS	LOG	CORR.	SMPL.	CARD/SMPLE TOPS	LOG	CORR.	SMPL.	DATA SOURCE	DEPTH	DATUM	CORR.	SMPL.	DATA SOURCE	DEPTH	DATUM	CORR.	SMPL.		
ANHYDRITE TOP			1731	431	1768	385		+ 46	1736	423		+ 8	1769	424		+ 7	1759	423			+ 8			
BASE			1764	398																				
TARKIO																								
TOPEKA			3149	-987	3134	-981		- 6	3142	-983		- 4	3169	-976		- 11	3168	-986			- 1			
OREAD																								
HEEBNER SHALE			3346	-1184	3337	-1184		+ 0	3346	-1187		+ 3	3374	-1181		- 3	3368	-1186			+ 2			
TORONTO			3372	-1210	3360	-1207		- 3	3369	-1210		+ 0	3398	-1205		- 5	3390	-1208			- 2			
DOUGLAS																								
BROWN LIME																								
LKC			3387	-1225	3376	-1223		- 2	3384	-1225		+ 0	3410	-1217		- 8	3406	-1224			- 1			
BKC			3589	-1427	3576	-1423		- 4	3580	-1421		- 6	3615	-1422		- 5	3608	-1426			- 1			
CONG. SAND																								
MISSISSIPPIAN																								
ARBUCKLE			3614	-1452	3607	-1454		+ 2	3615	-1456		+ 4	3650	-1457		+ 5	3642	-1460			+ 8			
REAGAN																								
RTD			3647	-1485	3681	-1528		+ 43	3690	-1531		+ 46	3670	-1477		- 8	3700	-1518			+ 33			
LTD					3680	-1527																		

DST #1 TORONTO

	DRILL STEM TEST REPORT	
	Black Diamond Oil Inc P. O. Box 641 Hays Ks 67601 ATTN: Jeff Lawler	9 7n 20w Rooks Roy / Gager # 3 Job Ticket: 46166 DST#: 1 Test Start: 2012.05.20 @ 10:15:00

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: 2162.00 ft (KB)
 Time Tool Opened: 11:40:00
 Time Test Ended: 14:10:00

Test Type: Conventional Bottom Hole (Initial)
 Tester: Jim Svaty
 Unit No: 57

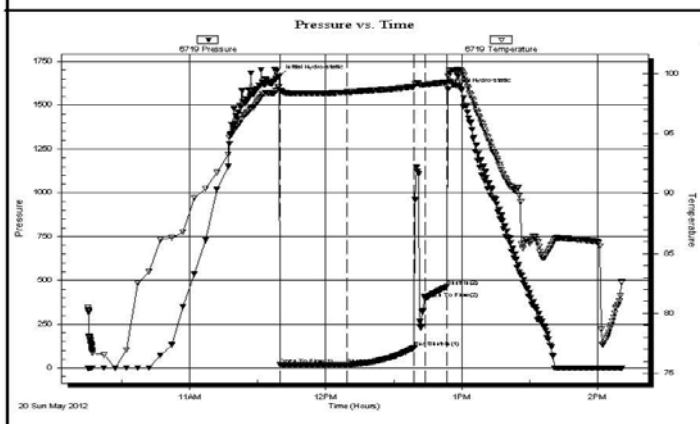
Interval: **3340.00 ft (KB) To 3387.00 ft (KB) (TVD)**
 Total Depth: 3387.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2162.00 ft (KB)
 2157.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 19.25 psig @ 3351.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2012.05.20	End Date: 2012.05.20
Start Time: 10:15:05	End Time: 14:10:30
	Last Calib.: 2012.05.20
	Time On Btm: 2012.05.20 @ 11:39:30
	Time Off Btm: 2012.05.20 @ 12:54:00

TEST COMMENT: 30-IFP- Surface Blow Died in 7min
 30-ISIP- No Blow
 Flushed
 10-FFP- No Blow

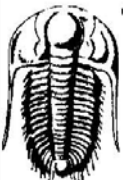


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1664.11	98.86	Initial Hydro-static
1	17.65	98.55	Open To Flow (1)
30	19.25	98.45	Shut-In(1)
60	117.07	98.90	End Shut-In(1)
65	396.05	99.07	Open To Flow (2)
74	464.88	99.26	Shut-In(2)
75	1591.51	99.77	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

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

DST #2 LKC "C-F"

 <p>TRILOBITE TESTING, INC.</p>	DRILL STEM TEST REPORT	
	Black Diamond Oil Inc P. O. Box 641 Hays Ks 67601 ATTN: Jeff Lawler	9 7n 20w Rooks Roy / Gager # 3 Job Ticket: 46167 DST#: 2 Test Start: 2012.05.20 @ 22:20:00

GENERAL INFORMATION:

Formation: **LKC "C-F"**
 Deviated: No Whipstock: 2162.00 ft (KB)
 Time Tool Opened: 23:55:00
 Time Test Ended: 02:44:00

Interval: 3412.00 ft (KB) To 3468.00 ft (KB) (TVD)
 Total Depth: 3468.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

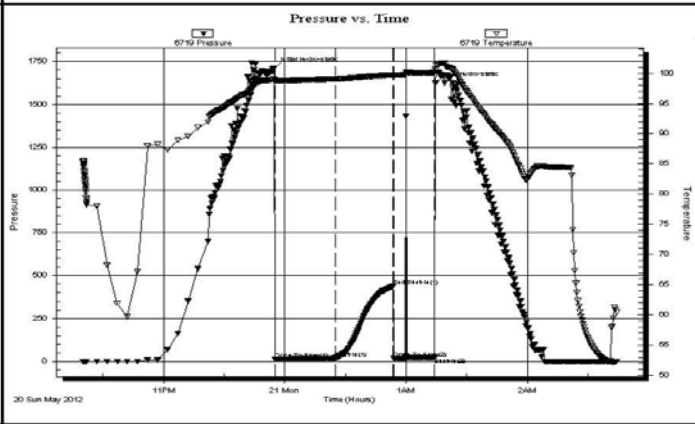
Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 57

Reference Elevations: 2162.00 ft (KB)
 2157.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6719 Inside

Press@RunDepth: 19.46 psig @ 3413.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2012.05.20	End Date: 2012.05.21
Start Time: 22:20:05	End Time: 02:43:59
	Time On Btm: 2012.05.20 @ 23:54:30
	Time Off Btm: 2012.05.21 @ 01:14:30

TEST COMMENT: 30-IFP- Surface Blow Died in 17min
 30-ISIP- No Blow
 10-FFP- No Blow
 Pulled



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1710.25	99.00	Initial Hydro-static
1	13.27	98.81	Open To Flow (1)
31	19.46	99.06	Shut-In(1)
59	437.29	99.72	End Shut-In(1)
60	17.71	99.65	Open To Flow (2)
80	21.94	100.13	Shut-In(2)
80	1623.97	100.64	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

* Recovery from multiple tests

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

ROCK TYPES



ACCESSORIES

MINERAL

P Pyrite

FOSSIL

○ Crinoids
◇ Fussilind

STRINGER

~~~~ Chert  
▨ Dolomite  
— green shale  
— red shale

#### TEXTURE

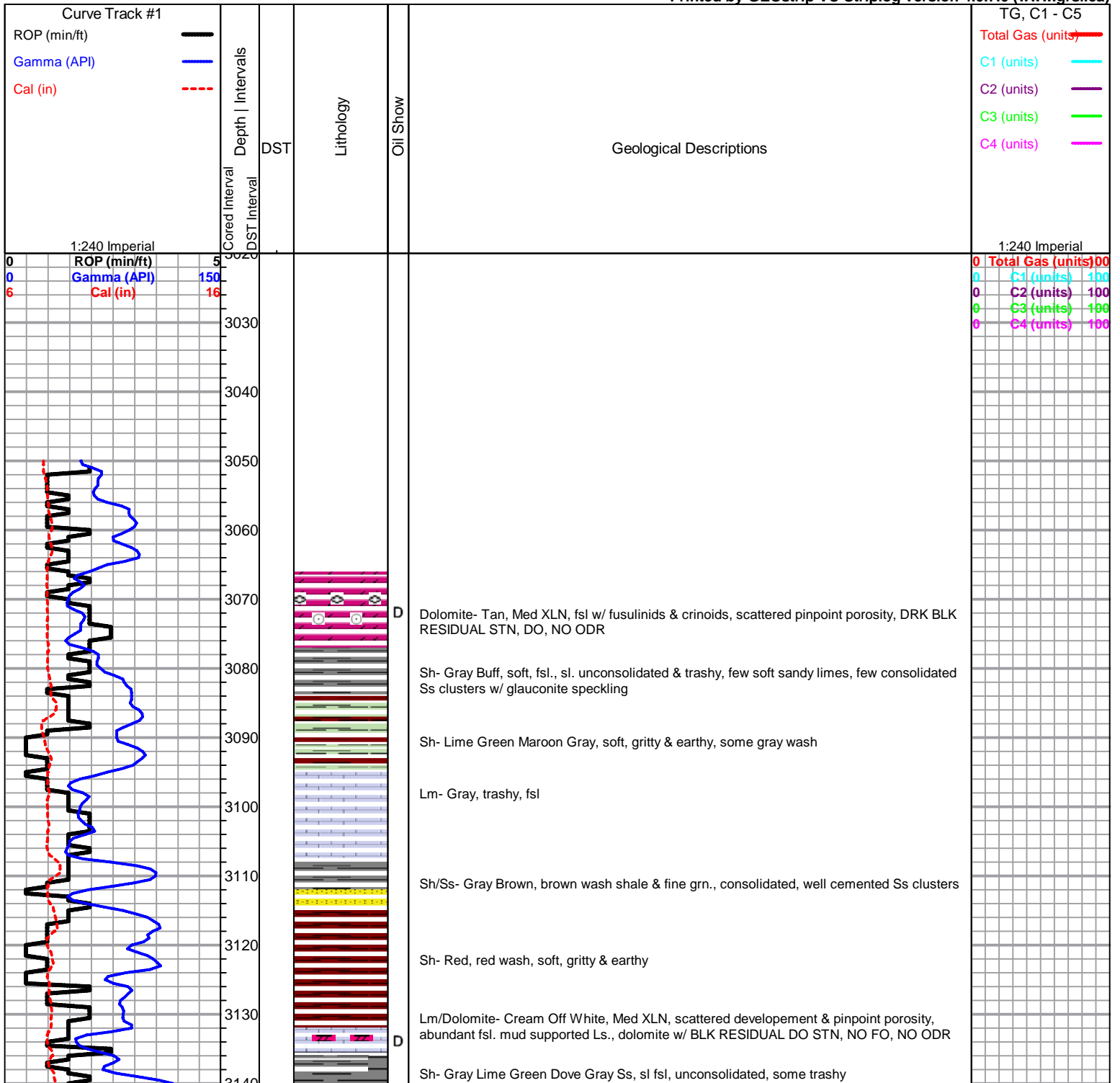
MX MicroIn

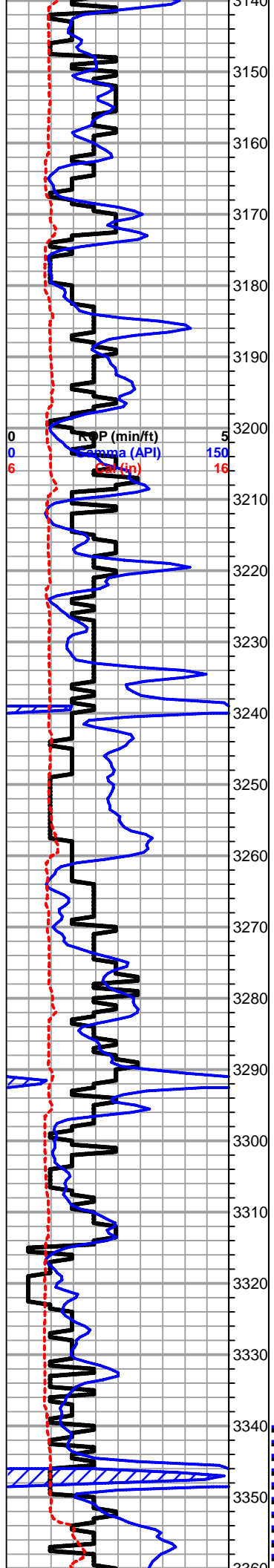
### OTHER SYMBOLS

#### DST

■ DST Int  
■ DST alt  
■ Core

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





**TOPEKA 3149' (-987) E-LOG 3141' (-979)** Lm- Cream Tan, FLXN, dense, poorly developed, not very homogenous, tight, chalky in part

Lm- Cream Tan, Fine grn., chalky, soft, crumbly, few dense FXLN chips, oolitic, well cemented w/ translucent siliceous cementation

Lm- Cream Tan Buff, FXLN, dense, densely packed oolites, gritty & grainy, sl. dolomitic, few chips of sl cherty Ls w/ no visible porosity

Sh- Gray Black Maroon White, soft, black wash, earthy

Lm- Gray Buff Cream, F-Med XLN, fsl, mostly trashy bio-clastic, few chips of cryptocrystalline sl cherty Ls w/ no visible porosity

Lm- Cream, F-Med grn., chalky in part, fsl, mostly crumbly, few dense well cemented w/ limited visible porosity, clean & barren

Lm- Cream Smokey Gray, mix of bedded chert & cherty Ls., abundant white chalk

Lm- Cream Buff Gray, fine grn., dense algal Ls., minimal development w/ limited to no visible porosity

Lm- Cream Gray, fine grn., mostly mud supported matrix trashy fsl, few chips of fsl cherty Ls, all clean & barren

Sh- Black Red, fissile, slatey, carbonaceous, some gritty & earthy

Sh- Gray Lime Green Brown, few chips of Ss, mostly lime green & brown wash shale

Lm- Cream Tan, FXLN, dense, mostly well cemented w/ limited visible porosity, few chips of gritty sl dolomitic Ls w/ scattered pinpoint porosity, few chips of well cemented siltstone speckled w/ pyrite

P P  
P

Lm- A/A, little bit more development, fsl w/ fusulinids, micro porosity, no shows noted

MX

Sh- Lime Green Maroon Brown, soft, sandy lime, gritty & earthy, few dense slivers

Sh- Black Gray, dense, fissile, carbonaceous, black wash, few chips of very well compacted siltstone

Lm- Cream Tan, F-Med XLN, oolitic, scattered pinpoint to vugular porosity on top of bench, DRK HVY SCATTERED STN, GOOD LIVELY FO, FNT ODR, grading down into sl. dolomitic dense poorly developed w/ scattered pinpoint porosity

●

Lm- Cream Tan, F-Med XLN, massive, sl fsl, dense & well cemented, granular, moderately well developed w/ scattered pinpoint to vugular porosity, SCATTERED DRK STN, GOOD LIVELY FO UPON CRUSH, FNT ODR UPON CRUSH, few chips of fsl bedded chert

●

Sh- Gray White, abundant white sticky chalk

Lm- Cream Tan, FXLN, chalky in part, sl. fsl, moderate development, very well cemented, scattered pinpoint porosity, SCATTERED DRK STN, SL SFO UPON CRUSH, NO ODR

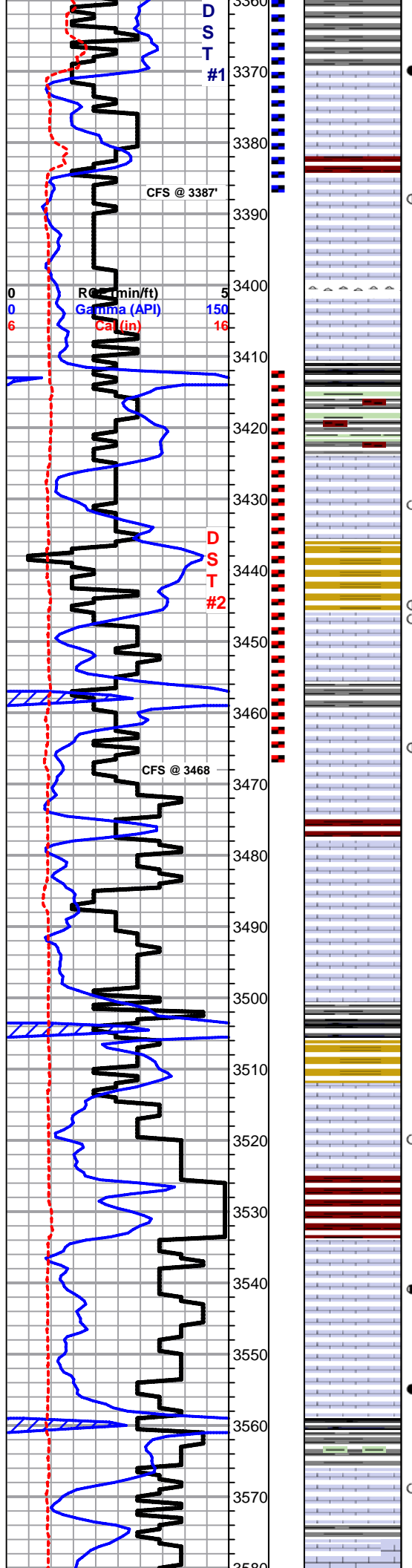
●

**HEEBNER 3346' (-1184) E-LOG 3345' (-1183)** Sh- Black Red Gray, fissile, slatey, carbonaceous, some gritty & earthy

|   |                   |     |
|---|-------------------|-----|
| 0 | Total Gas (units) | 00  |
| 0 | C1 (units)        | 100 |
| 0 | C2 (units)        | 100 |
| 0 | C3 (units)        | 100 |
| 0 | C4 (units)        | 100 |

SHORT TRIP  
SLOPE 1/4 degr.  
STRAD - 0.01





**TORONTO 3372' (-1210) E-LOG 3370' (-1108)** Lm- Cream Brown, FXLN, some dense & very well cemented, well developed w/ mostly consistant pinpoint porosity throughout, SATURATED LT BRWN STN, FR SFO, GSY SHEEN, FNT ODR

**LKC 3387' (-1225) E-LOG 3384' (-1222)** Lm- Buff Tan, Med XLN, oolitic, moderately well developed, scattered interparticle porosity, sub-vugular porosity w/ recrystallization w/in veins, DRK BRWN SCTRD ST, FR SFO UPON CRUSH, ODR

Lm- Cream White, VFXLN, dense, cryptocrystalline, sl. fsl, no visible porosity, chalky, chips of bone white sharp angular bedded chert

Sh- Black Gray Lime Green Maroon Brown, soft, smooth, earthy

Lm- Cream Off White, FXLN, quite a bit of pyrite, mostly dense, sl. fsl, well cemented, few chips w/ consistant pinpoint porosity, speckled w/ pyrite, SCTRD LT STN, NSFO, NO ODR

**DST #2**

Lm- Cream Tan, F-Med XLN, sl. oolitic, sctrd fine pinpoint secondary XLN porosity, chalky in part, few chips of tan dense, well cemented, w/ very sctrd pinpoint porosity, SCTRD LT STN, 5-6 CHPS W/ SCTRD LT STN, NO SFO, 1-2 CHPS W/ VERY SCTRD DRK HVY STN, SL SFO, NO ODR

Lm- Cream Tan, mix of small oolitic clusters w/ good interparticle porosity, LT GSY STN, NSFO, & tan, FXLN, densely packed oolites w/ clear siliceous cementation, DRK HVY SCTRD STN, SL SFO, ALL W/ FR ODR

Lm- Cream, FXLN, dense, semi-brittle w/ minimal developement, limited visible porosity, chalky

Lm- Cream, FXLN, sl. fsl, oolitic, micro XLN porosity w/ scattered dense secondary porosity, chalky, no shows noted

Chert- Salmon Tan Smokey Gray, sharp angular bedded chert, few chips of gritty sl. dolomitic chert

Lm- Cream Buff, VF-FXLN, dense, cryptocrystalline, few sl. cherty Ls, and dense algal Ls, all w/ very limited visible porosity

Sh- Black Brown Gray, fissile, dense, slaty, carbonaceous, smooth soft slivers

Lm- Buff, Fine grn., dense, well cemented, algal Ls., minimal scattered visible porosity, 1-2 chips of smokey gray/tan bedded chert, scattered pinpoint porosity w/ SCTRD LT STN, NSFO, NO ODR

Sh- Maroon Gray Lime Green, soft, gritty & earthy

Lm- Cream Tan, F-Med XLN, oolitic, fair inter oolite porosity, recrystallization w/in, LT GSY STN, SL SFO, FR GSY ODR, chips of tan dense, well cemented, sub-cryptocrystalline

Lm- Tan Cream, FXLN, consistant developement w/ dense very fine pinpoint porosity, LT GSY SAT STN, SL SFO, GD GSY ODR

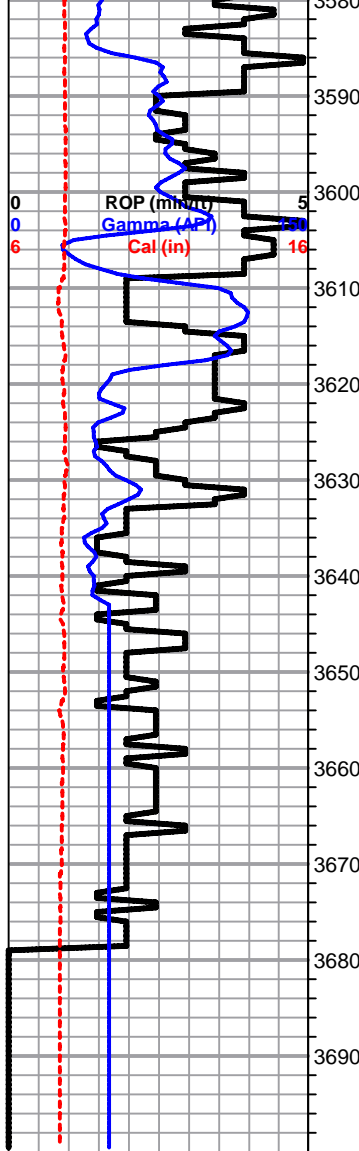
Sh- Black Gray Lm Green, soft, smooth chips

Lm- Off White Cream, VF-F XLN, mostly dense, tight, cryptocrystalline w/ minimal visible porosity, few chips w/ densely packed small oolites, 2-3 chips w/ scattered pinpoint porosity, SCTRD LT GSY STN, NSFO, FNT ODR UPON CRUSH

Lm- Cream, FXLN, tight, clear siliceous cementation, densely packed med. oolites, no

|   |                   |     |
|---|-------------------|-----|
| 0 | Total Gas (units) | 00  |
| 0 | C1 (units)        | 100 |
| 0 | C2 (units)        | 100 |
| 0 | C3 (units)        | 100 |
| 0 | C4 (units)        | 100 |

**DST #3**  
**LKC "C-F"**  
**3412 - 3468**



visible porosity

**BKC 3589' (-1437) E-LOG 3586' (-1424)** Sh- Red Gray Lm Green, sandy shales & limes, dense, well compacted smooth slivers

Lm- Cream Off White, Med XLN, fsl, large oolites, dense, consistant XLN porosity , chalky in part, clean & barren

Sh- Red, soft, gritty & earthy

Ss- Red White, VF grn, consolidated, chalky, friable

**ARBUCKLE 3614' (-1452) E-LOG 3618' (-1456)** Dolomite- Cream Tan Buff, F-Med XLN, mix of dense, tight well cemented w/ limited visible porosity and med XLN, sucrosic well developed w/ consistant pinpoint porosity throughout, SAT DRK STN, GD SFO, SOME BLEEDING FO, FNT ODR

Dolomite- Cream Buff, Med-Coarse XLN, consistant pinpoint porosity, sucrosic, visible rhombs, SAT DRK STN, BLEEDING FO, FNT ODR, few chips w/ cavernous porosity

Dolomite- VF-F XLN, dense, tight, limited visible porosity, few chips of sl. cherty dolomite w/ salmon tint, clean & barren

Dolomite- Cream Buff, F-Med XLN, scattered pinpoint porosity, sl. unsolidated, speckled w/ glauconite and pyrite inclusions, SCTRDRK BRWN STN, FO, VRY FNT ODR

Dolomite- Cream Clear, sandy dolomite w/ glauconite inclusions, well sorted & consolidated, clear rounded qtz. grns, loosely cemented w/ dolomite cementation, very little HCL effervescence, SCTRDRK STN, SL SFO, VRY FNT ODR

Dolomite- Buff Tan, VFXLN, rounded qtz. inclusions, dense, well cemented, limited visible porosity

**RTD 3678' (-1515) LTD 3680' (-1518) @ 18:18 5/21/2012**

|   |                   |     |
|---|-------------------|-----|
| 0 | Total Gas (units) | 00  |
| 0 | C1 (units)        | 100 |
| 0 | C2 (units)        | 100 |
| 0 | C3 (units)        | 100 |
| 0 | C4 (units)        | 100 |





### **Roy/Gager #3**

2130 ' FNL & 2280' FWL Sec. 9-7-20W  
Rooks County, Kansas

#### **June 13, 2012**

Ran Gamma Ray Sonic Bond Log. Found top of cement at 250 ft. from surface and possible cement up to 225 ft. Met with Case Morris at KCC; he approved cement job with no further work needed.

#### **June 21, 2012**

Move in and rig up Gaschler Pulling Service, Inc. Talley and ran 2 3/8" tubing with 4 3/4" bit. Rig up, Golden B, drill wiper plug and insert 22 ft. cement in shoe joint. Pull tubing with bit and swab casing down to 2500 ft. SDFN.

#### **June 22, 2012**

L.K. Wireline, Inc. perforated 3644, 3641, 3636, and 3626 each with one hole. Ran tubing with P&P set over all zones. Swab down with trace oil. Treat with 1000 gal. 15% MCA, set 30 minutes and swab down with good show of oil. Ran two 30 minute tests and recovered 2.4 Bbl. 27-40% oil. SDFN.

#### **June 25, 2012**

1200 ft. fluid in hole, 33% oil. Swab down and test all day at 2.4 Bbl. Per hour; oil declined to 10%. SDFN.

#### **June 26, 2012**

1450 ft. fluid, 11% oil. Pull P&P and perforate 3551 and 3538 each with one hole, and 3386 to 3688 with 4 HPF. Ran tubing with P&P and set over 3551 and 3538 and treat with 1000 gal. 15% MCA. Swab back show of oil, reset over 3386-3388 and treat with 500 gal. 15 % MCA. SDFN.

#### **June 27, 2012**

Fluid down hole 2100 ft. Swab down with show of oil. Run two 30 minute tests and recovered .75 Bbl per 30 minutes with trace of oil. Reset over 3551-3538 and swab down and test .75 Bbl. .75 Bbl per 30 minutes 15-20% oil. Retreat with 2000 gal. 28% NE. SDFN.

**June 28, 2012**

Fluid down hole at 1300 ft. Swab down and test 3.2 Bbl per hour 10-20% oil for two hours. Pull tubing with P&P. SDFN.

**June 29, 2012**

Ran tubing with packer (bull plugged on bottom) and set at 3580 ft. Ran rods with 2" x 1 1/2" x 12' insert plug. Tear down and move off.