

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1071193

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #		API No. 15
Name:		Spot Description:
Address 1:		SecTwpS. R 🗌 East 🗌 West
Address 2:		Feet from North / South Line of Section
City: State:	Zip:+	Feet from _ East / _ West Line of Section
Contact Person:		Footages Calculated from Nearest Outside Section Corner:
Phone: ()		□NE □NW □SE □SW
CONTRACTOR: License #		GPS Location: Lat:, Long:
Name:		(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:		Datum: NAD27 NAD83 WGS84
Purchaser:		County:
Designate Type of Completion:		Lease Name: Well #:
New Well Re-Entry	Workover	Field Name:
		Producing Formation:
☐ Oil ☐ WSW ☐ SWD	∐ SIOW R □ SIGW	Elevation: Ground: Kelly Bushing:
	Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)		Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):		Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info as follows:		If yes, show depth set: Feet
Operator:		If Alternate II completion, cement circulated from:
Well Name:		feet depth to:w/sx cmt.
Original Comp. Date: Origina	al Total Depth:	
Deepening Re-perf. Conv. to	o ENHR Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Conv. to	GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
Commingled Permit #:		Chloride content: ppm Fluid volume: bbls
		Dewatering method used:
		Location of fluid disposal if hauled offsite:
ENHR Permit #: _		
GSW Permit #:		Operator Name:
		Lease Name: License #:
Spud Date or Date Reached TD	Completion Date or	QuarterSecTwpS. R East West
Recompletion Date	Recompletion Date	Countv: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY					
Confidentiality Requested					
Date:					
Confidential Release Date:					
Wireline Log Received					
Geologist Report Received					
UIC Distribution					
ALT I II III Approved by: Date:					

Page Two



Operator Name:				_ Lease I	Name: _			Well #:	
Sec Twp	S. R	East	West	County	:				
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in press o surface test, along v	ures, whe	ther shut-in pre chart(s). Attach	ssure reac extra shee	hed stati	c level, hydrosta space is neede	tic pressures, b d.	ottom hole temp	erature, fluid recov
Final Radioactivity Lo files must be submitte						ogs must be ema	alled to kcc-well-	logs@kcc.ks.go	v. Digital electronic
Drill Stem Tests Taker (Attach Additional		Y	es No			J	on (Top), Depth		Sample
Samples Sent to Geo	logical Survey	Y	es No		Nam	е		Тор	Datum
Cores Taken Electric Log Run			es No						
List All E. Logs Run:									
				RECORD	Ne				
	0: 11.1					ermediate, product		" 0 1	T 15
Purpose of String	Size Hole Drilled		ze Casing t (In O.D.)	Weig Lbs.		Setting Depth	Type of Cement	# Sacks Used	Type and Percer Additives
			ADDITIONAL	CEMENTI	NG / SQL	JEEZE RECORD			
Purpose: Depth Top Bottom Type of Cement # Sacks Used Type and Percent Additives									
Perforate Protect Casing	Top Dottom								
Plug Back TD Plug Off Zone									
1 lug 0 li 20 lio									
Did you perform a hydrau	ulic fracturing treatment	on this well	?			Yes	No (If No, s	skip questions 2 a	nd 3)
Does the volume of the t			-		-			skip question 3)	
Was the hydraulic fractur	ing treatment informatio	n submitted	to the chemical of	disclosure re	gistry?	Yes	No (If No, i	ill out Page Three	of the ACO-1)
Shots Per Foot			ORD - Bridge Plugs Set/Type of Each Interval Perforated			Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Dept			
						(* *			200
TUBING RECORD:	Size:	Set At:		Packer A	t·	Liner Run:			
		0017111				[Yes N	o	
Date of First, Resumed	Production, SWD or EN	HR.	Producing Meth	nod:	g 🗌	Gas Lift (Other (Explain)		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wat	er B	bls.	Gas-Oil Ratio	Gravity
DIODOCITI	01.05.040			4ETUOD 05	. 00145/	TION:		DDOD! ICT!	
DISPOSITION Solo	ON OF GAS: Used on Lease		N Open Hole	∥ETHOD OF Perf.	_		mmingled	PRODUCTION	ON INTERVAL:
	(Submit ACO-5) (Submit ACO-4)								

Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Ottley #1-10
Doc ID	1071193

Tops

Name	Тор	Datum
Anhydrite	2334	+519
Base Andydrite	2356	+497
Heebner	3883	-1030
Lansing	3820	-1067
Stark Sh	4163	-1310
Marmaton	4266	-1413
Pawnee	4362	-1509
Cherokee	4446	-1593
Mississippi	4541	-1688



TICKET NUMBER LOCATION Oakley 163

620-431-9210	or 800-467-867	6		CEMEN	T			
DATE	CUSTOMER#		NAME & NUM		SECTION	TOWNSHIP	RANGE	COUNTY
9-24-11 CUSTOMER	4802	ottle	<u>1-10 </u>		10	143	310	Gove
	son Euc		,	Oakey		TO SERVICE STREET		A CARDON CONTRACTOR
MAILING ADDR	ESS	ginering		Sito 60 vers	TRUCK#	DRIVER	TRUCK#	DRIVER
				5E	463	miles 31	an	<u> </u>
CITY		STATE /	ZIP CODE	7.5	439	Cory D	RUIS	
		1 1		5. S.		<u> </u>	<u> </u>	
JOB TYPE Su	rface-O	HOLE SIZE 12	14	_ HOLE DEPTH	261		- 32	
CASING DEPTH		DRILL PIPE	<u> </u>	_ NOLE DEFTH _ TUBING_	_&OL	CASING SIZE & W		5/8 -20 4
SLURRY WEIGH		SLURRY VOL		_ TOBING WATER gal/sk	,	CEASENT LEET.	OTHER	C0-/
DISPLACEMENT	15 14	DISPLACEMENT	PSI	MIX PSI		CEMENT LEFT IN		5-20'_
REMARKS: 5	afety Me		کرنے ب) #2 . c	RAIE J D	11	
mix		com, 3%	(6-28)			ive on be	176 vic.	
		- 10 Ja	Shut		place to	2 4 DBC H	<u> 20</u>	
								
		Comon	F 77.7	Que.				
		LEMPLO W.	<u> </u>					
								
11:00					 			
						77 1	- 1	
						- Man	You.	
ACCOUNT	QUANITY o	or UNITS	DES	SCRIPTION of S	ERVICES or PRO		+ CN	
CODE				··· <u>···</u>		DUC1	UNIT PRICE	TOTAL
54013 5406			JMP CHARGE				1,02500	1,02500
	20		LEAGE	1 0			5.00	10000
11045		- SK3	Class	A Comoi			16 80	294000
1102	495		Gelen	in Chlo	ride		184	415
11188	330		Berton	te le			124	79 20
5407	8,23		Ton M	legge I	Deliver		158	4100
								
	<u> </u>							
							_	
								
								
								4.97000
	<u> </u>			100	5 15% D	IRC		74550
								4,77450
n 3737			244	484			SALES TAX	235 04
	> N_		·				ESTIMATED	111100 /
THORIZZION	EMA Rol	M					TOTAL	4457,59

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

CONSOLIDATED ON WORK SOUNISM, LLC

PO Box 884, Chanute, KS 66720 620-431-9210 or 800-467-8676

D SHETS TRA

TICKET NUMBER 28255
LOCATION ON HELE

FOREMAN FUZZY

FIELD TICKET & TREATMENT REPORT

WELL NAME & NUMBER SECTION TOWNSHIP RANGE COUNTY CUSTOMER LQYSON GWYNER TRUCK # DRIVER TRUCK # DRIVER MAILING ADDRESS CITY STATE ZIP CODE CITY STATE ZIP CODE JUSTING TRUCK # DRIVER TRUCK # DRIV		CHETOMES "			CEMEN	T			
CUSTOMER LAYSON ENGINEERS MAILING ADDRESS CITY STATE ZIP CODE CITY STATE ZIP CODE CASING DEPTH DRILL PIPE CASING DEPTH SLURRY WEIGHT 14.1 SLURRY VOL 1.40 WATER GAI/SK 6.7 CEMENT LEFT IN CASING REMARKS: SASAY MARKS ON H.D. D. T. D. T. G. S. O. J. O. T. C.	<u>-</u>		+		MBER		TOWNSHIP	RANGE	
MAILING ADDRESS TRUCK # DRIVER TRUCK # DRIVER TRUCK # DRIVER	CUSTOMER				0	0	14		+
105kg @ 305 105kg @ 40' w/plug	CUSTOMER LQYSON MAILING ADDRESS CITY JOB TYPE CASING DEPTH SLURRY WEIGHT 1 DISPLACEMENT REMARKS: SQS. 2 SS FS 100 3 F3 40 3 F3	TA 4.1 dy m	STATE HOLE SIZE DRILL PIPE SLURRY VOL DISPLACEMEN ANA 2345' 1380' 305	ZIP CODE 77/8 41/2 X 1.40 T PSI ~ +1.1	OA PIOY 11 5 - SE 71/2 5 11 2 E S : N HOLE DEPTH TUBING WATER gal/sk MIX PSI	TRUCK# 4163 439 4641	DRIVER DAMON M DATEK G CASING SIZE & WE CEMENT LEFT IN C.	TRUCK#	DRIVER

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT		
5405 N	(UNIT PRICE	TOTAL
5406	20 miles	PUMP CHARGE MILEAGE	125000	125000
5407	8.82 ton		500	10000
		Townilrace Delivery (min)	41000	41000
1131	205 5 KS	Lalua		
1118B	705*	Bendonide	14 35	2941 25
1107	5(*	Callociato	124	169 20
4432		85/8 plug	766	12466
		plug	9600	9600
		5 us doda!		5102 61
		1755 1090disc		510 36
				459235
rin 3737		244785	SALESTAY	0112
			SALES TAX ESTIMATED	242.17
JTHORIZTION		TITLE X on Dologo	TOTAL	4834.52

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



Larson Engineering, Inc

10-14s-31w Gove Co KS

562 W State Rd 4 Olmitz KS 67564 Ottley #1-10
Job Ticket: 43896

DST#: 1

ATTN: Vern Schrag

Test Start: 2011.10.01 @ 09:29:00

GENERAL INFORMATION:

Formation: LKC- 'K'

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 11:28:45

Tester: Will MacLean

Time Test Ended: 14:19:15 Unit No: 48

Interval: 4163.00 ft (KB) To 4207.00 ft (KB) (TVD) Reference Elevations: 2853.00 ft (KB)

Total Depth: 4207.00 ft (KB) (TVD) 2843.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8646 Outside

Press@RunDepth: 18.38 psig @ 4164.00 ft (KB) Capacity: 8000.00 psig

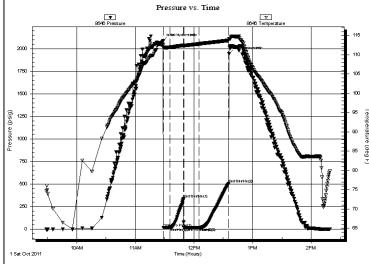
 Start Date:
 2011.10.01
 End Date:
 2011.10.01
 Last Calib.:
 2011.10.01

 Start Time:
 09:29:00
 End Time:
 14:19:15
 Time On Btm:
 2011.10.01 @ 11:28:30

Time Off Btm: 2011.10.01 @ 12:36:00

TEST COMMENT: IF- Weak Surface Blow

ISI- No Blow FF- No Blow FSI- No Blow



	Time	Pressure	Temp	Annotation	ı
	(Min.)	(psig)	(deg F)		ı
	0	2087.30	112.45	Initial Hydro-static	l
	1	18.26	111.84	Open To Flow (1)	ı
	7	19.13	111.95	Shut-In(1)	ı
7	21	337.97	112.43	End Shut-In(1)	l
emperature	22	18.75	112.31	Open To Flow (2)	ı
rature	37	18.38	112.82	Shut-In(2)	l
(dea l	67	505.00	113.73	End Shut-In(2)	l
נ	68	1942.21	114.13	Final Hydro-static	ı
					l
					ı
					ı

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)	
10.00	Mud 100%m	0.05	

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

Trilobite Testing, Inc Ref. No: 43896 Printed: 2011.10.02 @ 12:29:51



FLUID SUMMARY

Larson Engineering, Inc

10-14s-31w Gove Co KS

562 W State Rd 4 Olmitz KS 67564 Ottley #1-10

Job Ticket: 43896

Serial #:

DST#: 1

ATTN: Vern Schrag

Test Start: 2011.10.01 @ 09:29:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:60.00 sec/qtCushion Volume:bbl

5.60 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1700.00 ppm Filter Cake: 1.00 inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100%m	0.049

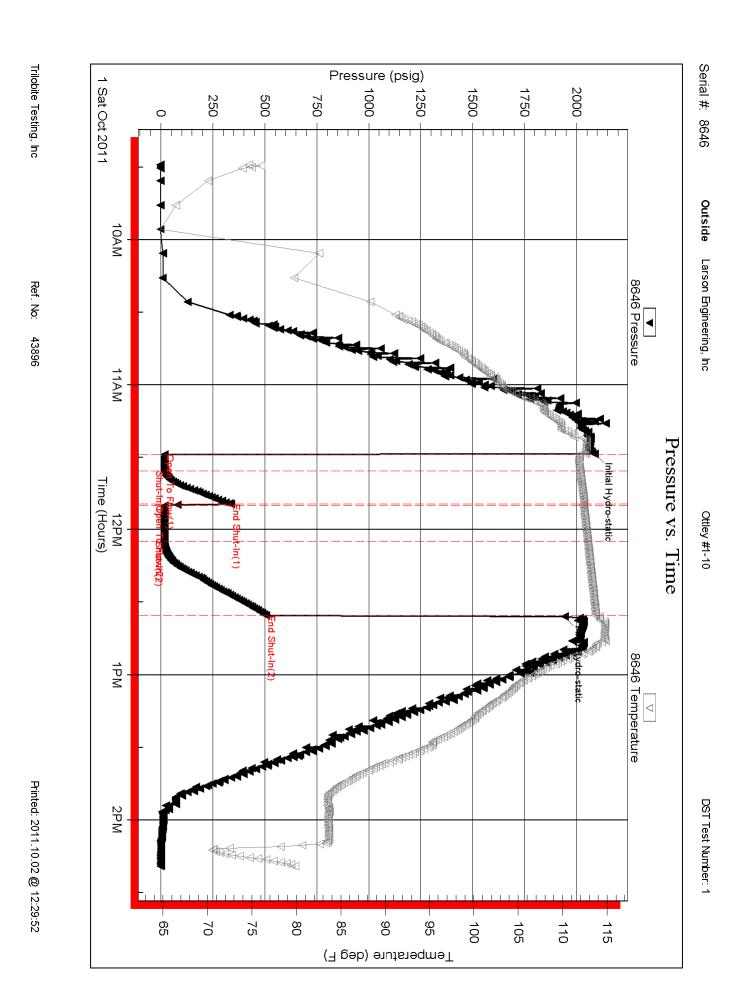
Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 43896 Printed: 2011.10.02 @ 12:29:52





Larson Engineering, Inc

10-14s-31w Gove Co KS

562 W State Rd 4 Olmitz KS 67564

Ottley #1-10

Job Ticket: 43897

DST#: 2

ATTN: Vern Schrag

Test Start: 2011.10.03 @ 07:44:00

Will MacLean

GENERAL INFORMATION:

Formation: Cherokee

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Reset) No ft (KB)

Time Tool Opened: 09:33:45 Time Test Ended: 13:15:30

Unit No: 48

Tester:

2853.00 ft (KB)

4444.00 ft (KB) To 4513.00 ft (KB) (TVD) Total Depth: 4513.00 ft (KB) (TVD)

Reference Elevations:

2843.00 ft (CF)

Hole Diameter:

KB to GR/CF: 10.00 ft

7.88 inches Hole Condition: Fair

Serial #: 8646 Press@RunDepth:

Interval:

Outside

4445.00 ft (KB) 46.03 psig @

End Date:

Capacity: Last Calib.: 8000.00 psig

2011.10.03

Start Date: 2011.10.03 2011.10.03 13:15:30

Time On Btm:

2011.10.03 @ 09:33:30

Start Time:

07:44:00 End Time:

Time Off Btm:

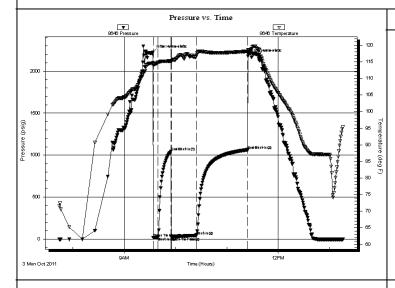
2011.10.03 @ 11:24:45

TEST COMMENT: IF- Weak Surface Blow Built to 1/4"

ISI- No Blow

FF- Weak Surface Blow Built to 1/2"

FSI- No Blow



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2224.28	114.62	Initial Hydro-static
1	17.01	113.79	Open To Flow (1)
6	24.40	114.88	Shut-In(1)
21	1042.72	115.24	End Shut-In(1)
22	26.48	114.96	Open To Flow (2)
51	46.03	116.80	Shut-In(2)
111	1064.39	118.17	End Shut-In(2)
112	2176.04	118.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	100%mud	0.30
0.00	Few Oil Spots in Tool	0.00
* Recovery from m	ultiple tests	

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mct/d)
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Trilobite Testing, Inc. Ref. No: 43897 Printed: 2011.10.04 @ 10:46:46



FLUID SUMMARY

Larson Engineering, Inc

10-14s-31w Gove Co KS

562 W State Rd 4 Olmitz KS 67564 Ottley #1-10

Job Ticket: 43897

Serial #:

DST#: 2

ATTN: Vern Schrag

Test Start: 2011.10.03 @ 07:44:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 49.00 sec/qt Cushion Volume: bbl

6.40 in³ Gas Cushion Type:

Gas Cushion Pressure: psig

Salinity: 1800.00 ppm Filter Cake: 1.00 inches

ohm.m

Recovery Information

Water Loss:

Resistivity:

Recovery Table

Length ft	Description	Volume bbl
60.00	100%mud	0.295
0.00	Few Oil Spots in Tool	0.000

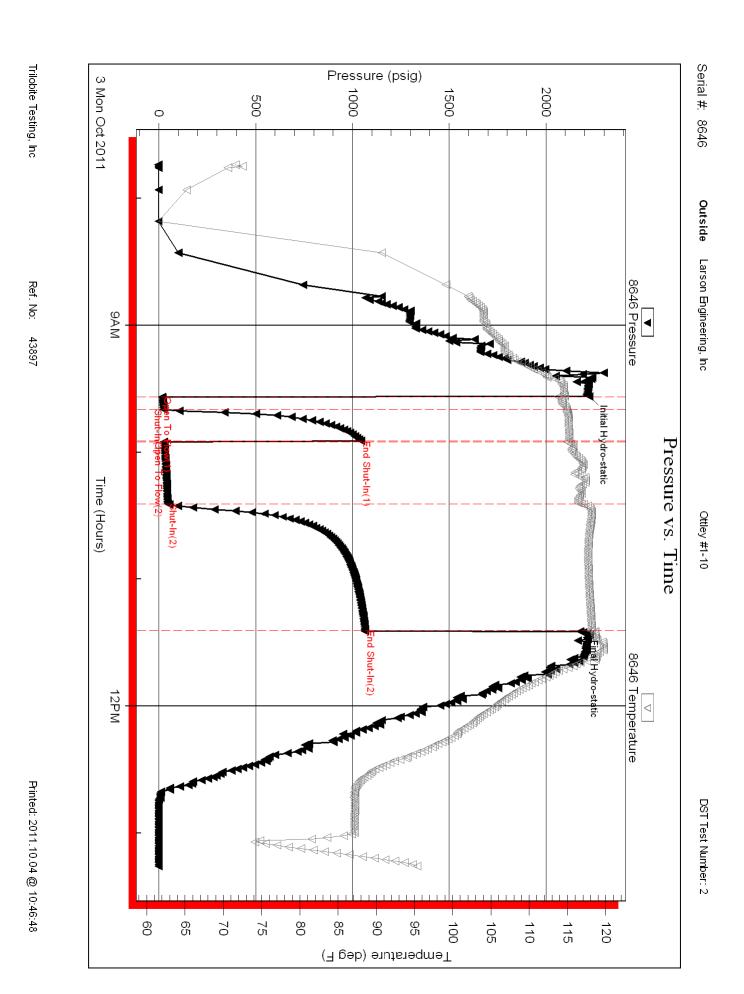
Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 43897 Printed: 2011.10.04 @ 10:46:47





Larson Engineering, Inc

ATTN: Vern Schrag

10-14s-31w Gove Co KS

562 W State Rd 4 Olmitz KS 67564 Ottley #1-10

Tester:

Unit No:

Job Ticket: 43898 **DST#: 3**

Test Start: 2011.10.04 @ 03:00:00

GENERAL INFORMATION:

Formation: Mississippi

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 05:35:00 Time Test Ended: 09:37:30

Reference Elevations: 2853.00 ft (KB)

Will MacLean

48

4507.00 ft (KB) To 4573.00 ft (KB) (TVD)

2843.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

4573.00 ft (KB) (TVD)

KB to GR/CF: 10.00 ft

Serial #: 6669 Inside

Interval:

Total Depth:

Press@RunDepth: 28.39 psig @ 4508.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2011.10.04
 End Date:
 2011.10.04
 Last Calib.:
 2011.10.04

 Start Time:
 03:00:00
 End Time:
 09:37:30
 Time On Btm:
 2011.10.04 @ 05:34:30

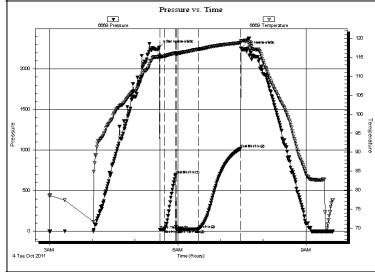
 Time Off Btm:
 2011.10.04 @ 07:28:30

TEST COMMENT: IF- Weak Surface Blow 1/4"

ISI- No Blow

FF- Weak Surface Blow

FSI- No Blow



		Г	\L330I\	L SOMMAN
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2267.00	115.51	Initial Hydro-static
	1	19.33	115.15	Open To Flow (1)
	7	22.12	115.27	Shut-In(1)
	23	697.20	116.09	End Shut-In(1)
1	24	23.57	115.87	Open To Flow (2)
	55	28.39	117.12	Shut-In(2)
	114	1018.56	118.80	End Shut-In(2)
	114	2254.77	119.14	Final Hydro-static

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
40.00	1% oil 99%m	0.20
* Recovery from mul	tiple tests	

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

Gas Rates

Trilobite Testing, Inc Ref. No: 43898 Printed: 2011.10.04 @ 11:46:47



FLUID SUMMARY

Larson Engineering, Inc

10-14s-31w Gove Co KS

562 W State Rd 4 Olmitz KS 67564 Ottley #1-10

Job Ticket: 43898

Serial #:

DST#: 3

ATTN: Vern Schrag

Test Start: 2011.10.04 @ 03:00:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight: 9.00 lb/gal Cushion Length: ft
Viscosity: 49.00 sec/qt Cushion Volume: bbl

6.40 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1800.00 ppm Filter Cake: 1.00 inches

Recovery Information

Water Loss:

Recovery Table

Length ft		Description	Volume bbl
	40.00	1% oil 99%m	0.197

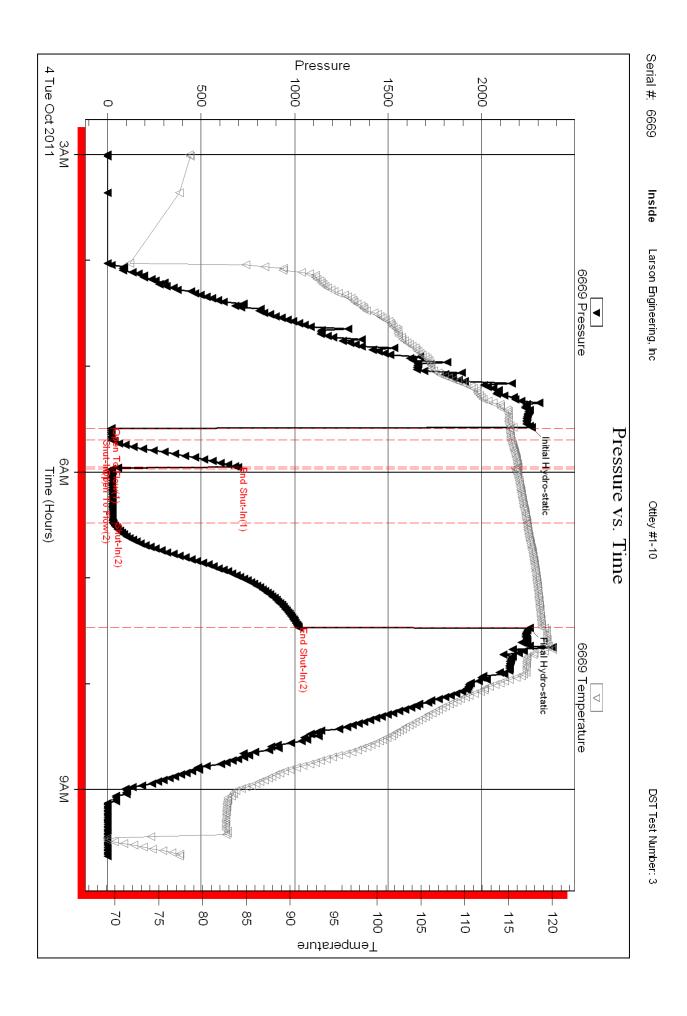
Total Length: 40.00 ft Total Volume: 0.197 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 43898 Printed: 2011.10.04 @ 11:46:48

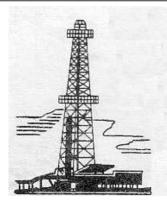


Trilobite Testing, Inc

Ref. No:

43898

Printed: 2011.10.04 @ 11:46:48



WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG CONSULTANT GEOLOGIST



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

Well Name: OTTLEY #1-10

Location: SE NE SE NW Sec. 10-14s-31w

Licence Number: API: 15-063-21932 Region: Gove Co., KS

Spud Date: September 24, 2011 Drilling Completed: October 04, 2011

Surface Coordinates: 1678' FNL & 2527' FWL

Bottom Hole Vertical Hole

Coordinates:

Ground Elevation (ft): 2843' K.B. Elevation (ft): 2853' Logged Interval (ft): 3600' To: RTD Total Depth (ft): 4641'

Formation: Mississippi

Type of Drilling Fluid: Chemical Premix (Displaced)

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

OPERATOR:

Company: LARSON ENGINEERING, INC.

Address: 562 West State Road 4

Olmitz, KS 67564-8561

DRILLING CONTRACTOR:

H. D. Drilling, LLC, Rig #2

DP 4.5" XH (16.6#); DC 6.25 x 2.25" x 494.80', Kelly + Bit 42.00', Tool Joint 5.5"; Bit: JZ QX20, 7-7/8", jets 14-14-14; WOB 35k; Kelly Bushing 10' above ground level; Doug Roberts (tool pusher).

SURFACE CASING:

Set 8-5/8" (20#) casing at 258' (KB)

CIRCULATION SYSTEM:

Pump: National K-380A, duplex, 6 x 14, 2" rod, 55 spm, about 300 gpm (85%). SPP: 725-900 psi; Chemical, premix, displaced, earth pits; Mud-Co/Service Mud, Inc., Tyler Lang.

GAS DETECTION SYSTEM:

Unit USB-1208LS-213 portable hot-wire, Delphian 3.0 volt catalytic bead detector.

DRILL STEM TEST #1:

Zone: Kans. City "K": Test Interval: 4163-4207' (44' anchor); Blow: weak surf IFP, no blow FFP; Time Periods: 5-15-15-30; Recovery: 10' mud, no show; Pressures: HP: 2087-1942; SIP: 337-505; FP: 18-19,

18-18; BHT: 114 deg F; dual packers, jars, joints, 123' collars; Trilobite Testing, Inc., Will MacLean.

DRILL STEM TEST #2:

Zone: Cherokee; Test Interval: 4444-4513 (69' anchor); Blow: weak incr 1/2" IFP, no RB, weak incr 1/2" FFP, no RB; Time Periods: 5-15-30-60; Recovery: 60' mud w/oil spots in tool (100% mud); Pressures: HP: 2224-2176; SIP: 1042-1064; FP: 17-24, 26-46; BHT: 118 deg F; dual packers, jars, joints, 123' collars; Trilobite Testing, Inc., Will MacLean.

DRILL STEM TEST #3:

Zone: Mississippi: Test Interval: 4507-4573 (66' anchor); Blow: weak 1/4" IFP, no RB, weak surf FFP, no RB; Time Periods: 5-15-30-60; Recovery: 40' oil cut mud (1% oil); Pressures: HP: 2267-2254; SIP: 697-1018; FP: 19-22, 23-28; BHT: 118 deg F; dual packers, jars, joints, 123' collars; Trilobite Testing, Inc., Will

OPEN HOLE LOGS:

DN (PE), DI (SP), ML: 5" detail LTD-3600; 2" DI to suface casing; No Sonic Log; LogTech-Pioneer Wireline, Hays, KS, K. Bange, Log total depth (4641') was equal to rotary total depth (4641').

COMPLETION:

Dry & Abandoned

7AM DAILY ACTIVITY:

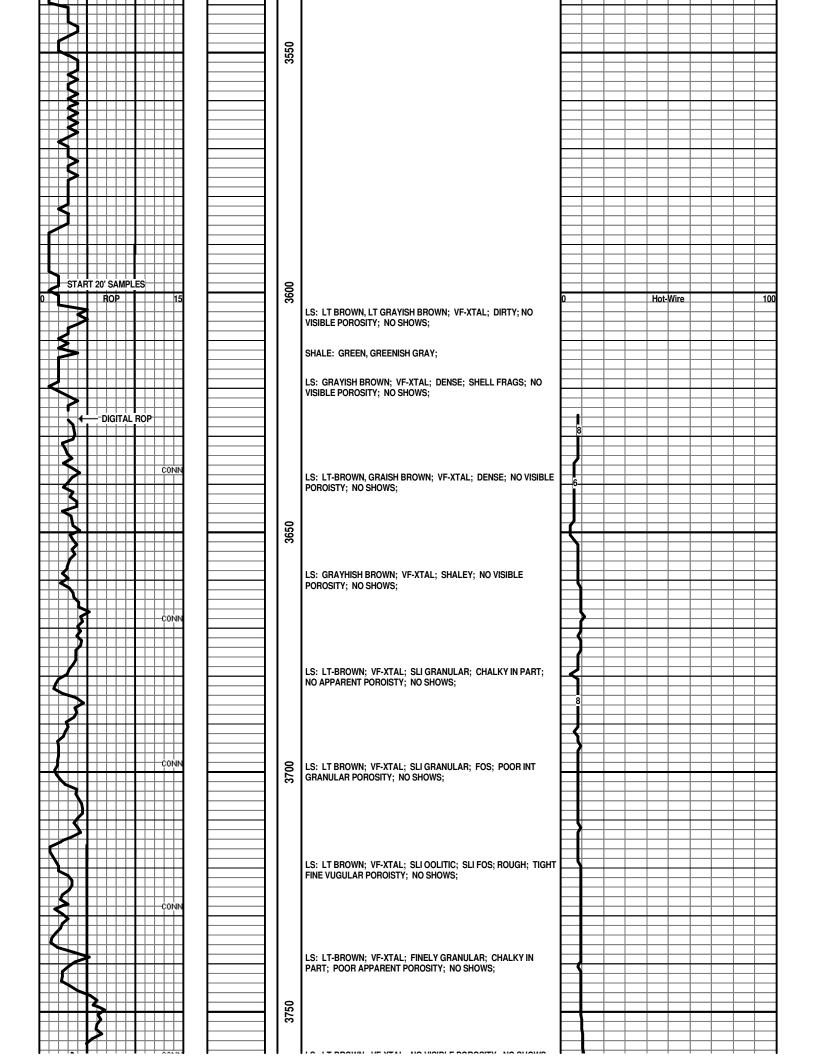
09/24: MIRT, SPUD

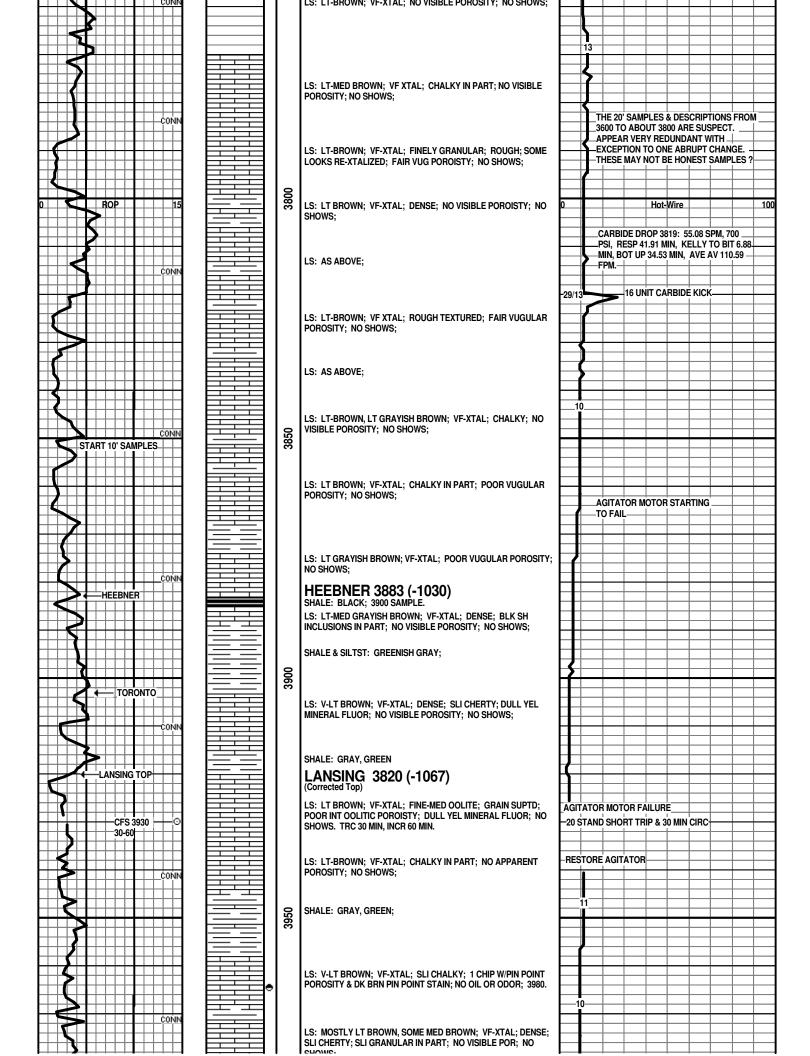
09/25: 261', Drill under surf.

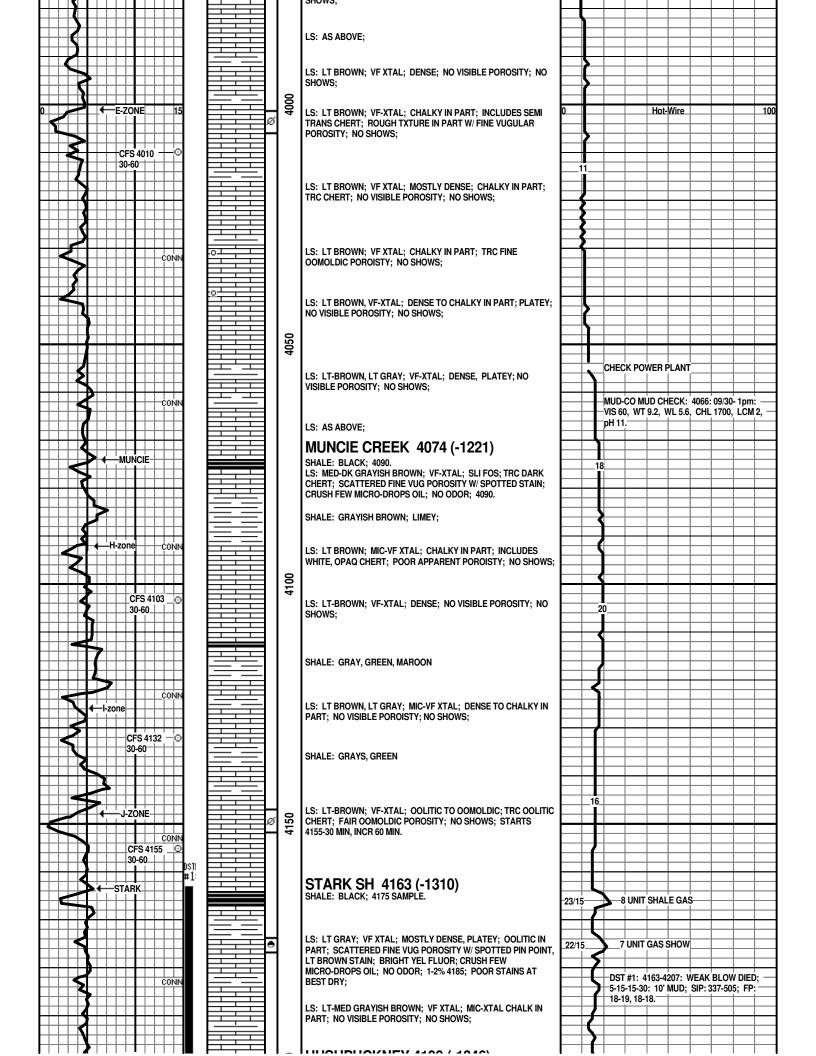
09/26: 1510' Bit Trip 09/27: 2390' Drilling 09/28: 3212' Drilling 09/29: 3784' Drilling 09/30: 4010' CFS 4207' DST#1 10/01: 10/02: 4335' Drilling 10/03: 4513' DST#2

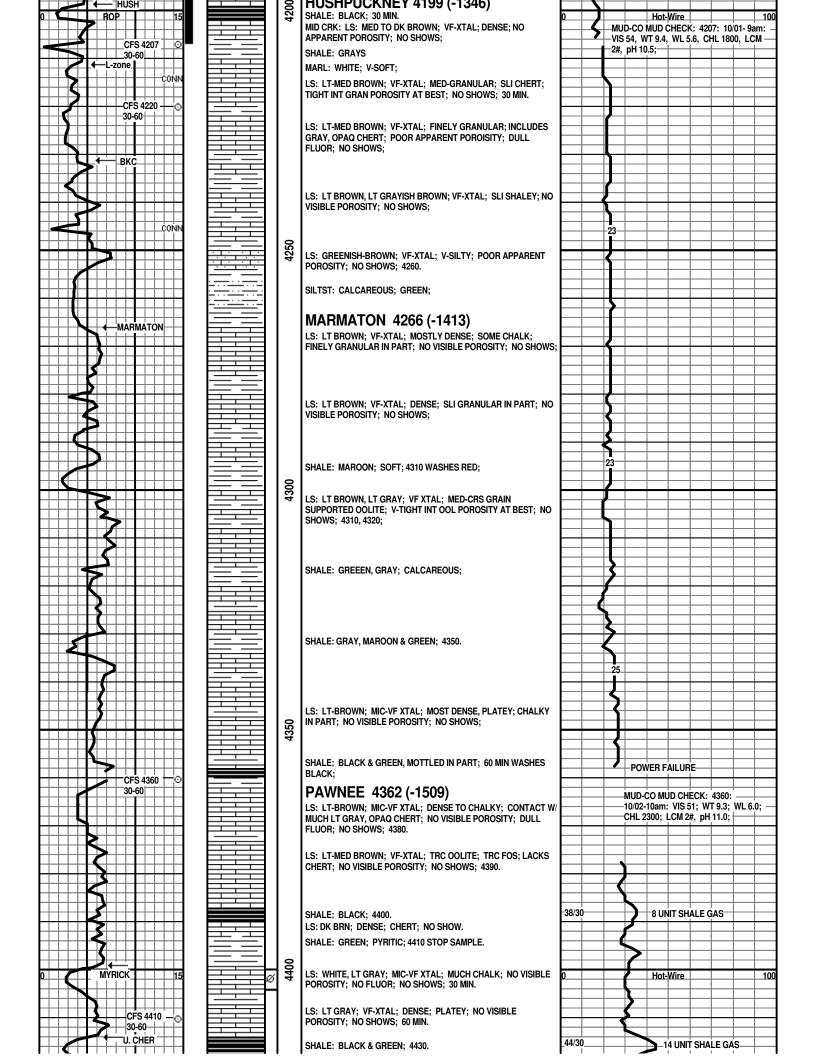
10/04: 4573' DST#3 10/04: 4641' RTD (5:42pm) 10/05: 4641' Released 2:15 am

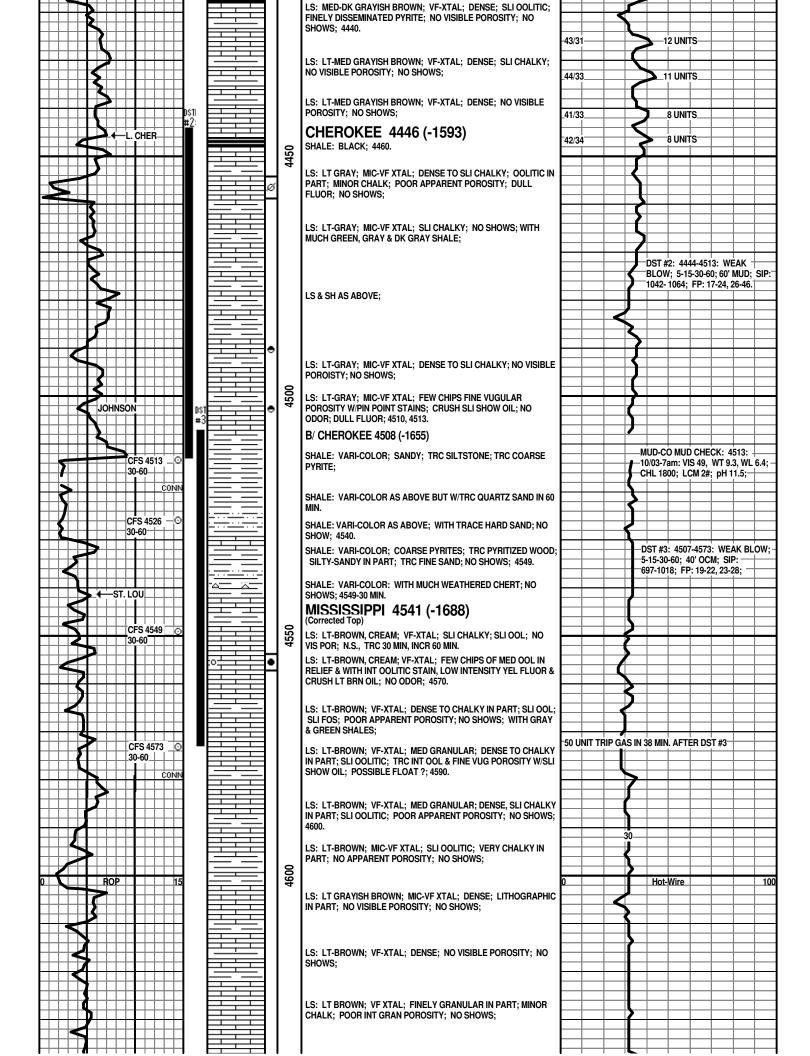
ROP ROP (min/ft)	DST	Lithology	Porosity and Show	Depth	Geological Descriptions	0	G (ur 1 (un 2 (un 3 (un 4 (un 5 (un	nits) nits) nits) nits) nits)	, C1-			MAR	KS	- - - -
GEOLOGRAPH ROP				3500	ANHYDRITE 2334 (+519) B/ANHY 2356 (+497)	-BIT	TRIP 1	1497—1510—		Hote	Wire			100











CFS 30-60		ROTARY TOTAL DEPTH 4641 (-1788)	LOG	-TECH	LTD	4641-				
	4650									
RTD 4641.09 10/04/2011-5:42pm	46								\exists	
									\exists	\equiv
									\exists	

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Mark Sievers, Chairman Ward Loyd, Commissioner Thomas E. Wright, Commissioner

January 20, 2012

Thomas Larson Larson Engineering, Inc. dba Larson Operating Company 562 W STATE RD 4 OLMITZ, KS 67564-8561

Re: ACO1

API 15-063-21932-00-00 Ottley #1-10 NW/4 Sec.10-14S-31W Gove County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Thomas Larson