KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1251073

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:					
Address 2:		Feet from Dorth / South Line of Section			
City: State: Zip:	+	Feet from East / West Line of Section			
Contact Person:		Footages Calculated from Nearest Outside Section Corner:			
Phone: ()					
CONTRACTOR: License #		GPS Location: Lat:, Long:			
Name:		(e.g. xx.xxxxx) (e.gxxx.xxxxxx)			
Wellsite Geologist:		Datum: NAD27 NAD83 WGS84			
Purchaser:		County:			
Designate Type of Completion:		Lease Name: Well #:			
	Workover	Field Name: Producing Formation:			
	_				
	SIOW	Elevation: Ground: Kelly Bushing:			
Gas D&A ENHR		Total Vertical Depth: Plug Back Total Depth:			
CM (Coal Bed Methane)	Temp. Abd.	Amount of Surface Pipe Set and Cemented at: Feet			
Cathodic Other (Core, Expl., etc.):		Multiple Stage Cementing Collar Used?			
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: Original Total E					
Deepening Re-perf. Conv. to ENHR		Drilling Fluid Management Plan			
	Conv. to Producer	(Data must be collected from the Reserve Pit)			
_		Chloride content: ppm Fluid volume: bbls			
Commingled Permit #:		Dewatering method used:			
Dual Completion Permit #:					
		Location of fluid disposal if hauled offsite:			
		Operator Name:			
GSW Permit #:		License #:			
		Quarter Sec TwpS. R [] East [] West			
•	mpletion Date or completion Date	County: Permit #:			
		Γ σταπτψ Γ στηπτ π			

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:						

		12510)73
Operator Name:		Lease Name:	Well #:
Sec TwpS.	R East West	County:	
	stant tang of formations panatrated Data	ail all agree. Depart all final appias of drill stome to	ate aiving interval tested time test

Page Two

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional Sheets)		Yes No		0	Formation (Top), Depth a		Sample
Samples Sent to Geolog	jical Survey	Yes No	Name	9			Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING Report all strings set-c	RECORD New		on, 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							

Perforate	
Protect Casing	
Plug Back TD Plug Off Zone	

Did you perform a hydraulic fracturing treatment on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

(If No, skip questions 2 and 3) (If No, skip question 3)

No

No

No

(If No, fill out Page Three of the ACO-1)

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated)e			ement Squeeze Record d of Material Used)	Depth
TUBING RECORD: Size: Set At:				Packe	r At:	Liner R	Run:	No		
Date of First, Resumed Production, SWD or ENHR.		Producing M	ethod:	ping	Gas Lift	Other (Explain)				
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI	DISPOSITION OF GAS:							PRODUCTION INTE	ERVAL:	
Vented Solo	I 🗌 k	Used on Lease		Open Hole Perf. Dually (Submit)		Comp.	Commingled (Submit ACO-4)			
(If vented, Submit ACO-18.)		Other (Specify)				(000/1/100/1)				

Form	ACO1 - Well Completion		
Operator	BEREXCO LLC		
Well Name	Michael 10-22		
Doc ID	1251073		

Tops

Name	Тор	Datum	
Anhydrite	3032	+88	
Anhydrite (base)	3064	+57	
Foraker	3626	-506	
Topeka	3844	-724	
Oread	3960	-840	
Lansing A	4057	-937	
Lansing B	4112	-992	
Lansing C	4176	-1056	
Lansing D	4218	-1098	
Lansing E	4260	-1140	
Lansing F	4298	-1178	
RTD	4400	1280	
LTD	4395	-1275	

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Michael 10-22
Doc ID	1251073

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	.251	8.625	20	297	common	2%gel, 3%CC

VVELL FILE	· · ·
ALLIED OIL & GA	S SERVICES, LLC 064660
Federal Tax I.	D.#20-8651475
REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	SERVICE POINT: Oakley, KS
SEC. TWP. RANGE OF IC	
DATE - Co-CS SEC. 22 I RANGE 36 C	ALLEDOUT ON LOCATION JOB START JOB FINISH
LEASE WELL# 10-22 LOCATION Bears	Isley Nto AA, 5/2 COUNTY STATE
OLD OK NEW (Circle one) al, Soin fe	De CONTENTE CONTENTE RESERVERS
CONTRACTOR Baredco 10 TYPE OF JOB Ser face	OWNER Sauce
HOLE SIZE 12 Yor T.D. 3001	
CASING SIZE SHE DEPTH 27:05	CEMENT 235 36 4
TUBING SIZE DEPTH	AMOUNT ORDERED 225 Sta com 37000
DRILL PIPE DEPTH	- n co gen
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON 225 5/50 @ 17.90 5/027.50
MEAS. LINE SHOE JOINT	POZMIX@
CEMENT LEFT IN CSG. 15 PERFS.	GEL 42.2 # @ .50 211.50
DISPLACEMENT (8-18	CHLORIDE 435 @ 1.19 678-50
V	ÁSC@
EQUIPMENT	INVATERICS Take Consults
Diversity of Parish C	
PUMPTRUCK CEMENTER	- <u></u>
BULK TRUCK HELPER Wayne Mc Engling	@
# 8/8/287 DRIVER Paul Brance	@
BULK TRUCK	Q
# DRIVER	
	HANDLING 243,3 AT @ 2,48 65.38 MILEAGE//// Amax 52 × 2,75 1527.65
REMARKS:	MILEAGE/111 10 K 2. 75 1527.65
	TOTAL
Mor 225 5 Ke connect	
Displance with water	SERVICE
Concertation Circulate	725 - 72
	DEPTH OF JOB 299051
	PUMP TRUCK CHARGE 1512.23 EXTRA FOOTAGE @
A	MILEAGE @ 7.70 383.00
- Thank you	MANIFOLD @775-00
	MELU 50 94.90 NC
Ð	Wartury fine 3 400 14000 1320.00
CHARGE TO: Berekce	
STREET	(2405.71 45%) TOTAL J.348.20
CITYSTATEZIP	
54°	PLUG & FLOAT EQUIPMENT
·	@
Tor Allind Oll & Ore De Charles Tra	@
To: Allied Oil & Gas Services, LLC.	@
You are hereby requested to rent cementing equipment	@
and furnish cementer and helper(s) to assist owner or	
contractor to do work as is listed. The above work was	
done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL	TOTAL
TERMS AND CONDITIONS" listed on the reverse side.	SÅLES TAX (If Any)
iscu on the constitutions listed on the reverse side.	1
En Allen	TOTAL CHARGES 11, 50, 2.71
PRINTED NAME FROKGORGIMM	DISCOUNT STATE ALL 453 IF PAID IN 30 DAYS
SIGNATURE Chill Chima	G. 306.49 Net.
	•
\sim 7	

ALLERD OT A GASSERVICES, LLC CEMENTING LOG STACE NO. Our /- 1/6 /5 Inscr 0.03/L/1/1/10/1000000000000000000000000000	·.			- stan			(
Date		ALI BIL & GAS SE	IEI) c		CE	EMENTING LOG STAGE NO.
Company Data Co. Co. Rol Correct Star Control (17/20 Data) Company Data Co. Co. Rol Correct Star (Co. Control (Correct Star (Control (Correct Star (Correc	11/	15	X . Fr 1	t les	1.11	1.110	CEMENT DATA:
Comparing Description of the control of the contro	Date / -/C	Dist	rict Oakl	app KJ	Ticket No. 63 7	6.90	
converting Raw Let 1 State KS converting RA Yes 1 State State converting RA Yes 1 State State converting PTA 1 State RA State State converting PTA 1 State Mail RA State	Company	thenes	<u>n-es</u>	F	Rig Dest Year	10 0-03	Aint Sks Yield fl 3/sk Density PPG
RB I THIL Description RB Survey Instruction Instruction <thinstruction< th=""> Instruction <thinstruction<< td=""><td>7</td><td></td><td></td><td></td><td>1 - 1</td><td><u> </u></td><td></td></thinstruction<<></thinstruction<>	7				1 - 1	<u> </u>	
AND DUR: Conductor PTA Disputes Nate Ant AT		and the second se					
Description Conductor Prince Mate M							LEAD: Pump Time hrs. Type Corect 3% CC
District Conductor I PIA Squeeze Masc Matc Ma		/		<u> </u>			Excess
use Image: Star Type All and the second of the second			_		• —	/isc 🔲	Amt. And Sks Yield 1. JF It 3/sk Density 1.3.02 PPG
Ant	\$ 30	Surface	Lef Intermed	fiate ∐ Pi	111	iner 🗋	TAIL: Pump Time hrs. Type
white Lead gale/sk Tail gale/sk Total paring Depths Top K B Bottom 292.92 Paring Tracks Used 422354.02 III Pipe: Size For Tracks Used 422356.02 III Pipe: Size For Tracks Used For Tracks Used III Pipe: Size Educations For Tracks Used For Tracks Used III Pipe: Size Educations For Tracks Used For Tracks Used For Tracks Used III Pipe: Size For Tracks Used For Tracks Used For Tracks Used For Tracks Used III Pipe: Size For Tracks Used For Tracks Used For Tracks Used For Tracks Used III For Tracks Used For Tracks Used <t< td=""><td>ze</td><td>_Туре</td><td>Wei</td><td>ght</td><td>Collar</td><td></td><td></td></t<>	ze	_Туре	Wei	ght	Collar		
sing Depthe Top K B Bottom 292.92 But Fig. 28 $7-Paul$ But Equip. $818/287-Paul$ But Equip. $818/287-Paul$ But Equip. $818/287-Paul$ But Equip. $818/287-Paul$ But Equip. $818/287-Paul$ From Equip. $818/287-Paul$ But Equip. $818/287-Paul$ But Equip. $818/287-Paul$ But Equip. $818/287-Paul$ But Equip. $818/287-Paul$ From Equip. $818/287-Paul$ But Equip. $916/287-Paul$ But Equip. $916/287-Paul Paul Paul Paul Paul Paul Paul Paul $							
But Equip. $3^{1}3^{2}3^{2}7 - Part /$ But Equip. $3^{1}3^{2}7^{2} - Part /$ But Equip. $3^{1}3^{2} - Par$				· · · · · · · · · · · · · · · · · · ·			WATER: Lead gals/sk Tail gals/sk Total Bbls.
Bulk Equip. $SiSIAST-Pariel$ Bulk Equip. $SisIAST-Pariel Bulk Equip. SisIAST-Pariel <$			20		200 0 7	<u>c;</u>	
III Pipe: Site	ising Depths: T	op	P	Bottom	<u>X77.87</u>		Pump Trucks Used 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
VARANT YACTORS: VARANT YACTORS: Stor: Type Oopth VARANT YACTORS: Bits/Lin. ft. C. G. Y. Lin. ft./Bbl. Stor: Type Oopth Son: Warden Stor: Bits/Lin. ft. Lin. ft./Bbl. Centralizers: Ovenity Plugs Top Ben. IP Pre: Bits/Lin. ft. Lin. ft./Bbl. Stage Cellars Centralizers: Ovenity Plugs Top Ben. IP Pre: Bits/Lin. ft. Lin. ft./Bbl. Stage Cellars Centralizers: Ovenity Plugs Top Ben. IP Pre: Bits/Lin. ft. Lin. ft./Bbl. Stage Cellars Centralizers: Ovenity Plugs Top Ben. IP Pre: Bits/Lin. ft. Lin. ft./Bbl. Deep Fluid Type Ant. (JC/S) Bels. Med Type Med Type Weight If and the fill of the							Bulk Equip 815/287 - Fand
VARANT YACTORS: VARANT YACTORS: Stor: Type Oopth VARANT YACTORS: Bits/Lin. ft. C. G. Y. Lin. ft./Bbl. Stor: Type Oopth Son: Warden Stor: Bits/Lin. ft. Lin. ft./Bbl. Contraiters: Ovenity Plugs Top Bets. IP Pre: Bits/Lin. ft. Lin. ft./Bbl. Stage Collars Bets. Bets. IP Pre: Bits/Lin. ft. Lin. ft./Bbl. Stage Collars Bets. Bets. IP Pre: Bits/Lin. ft. Lin. ft./Bbl. Stage Collars Amt. (JC./Stage) Bets. IP Pre: Bits/Lin. ft. Lin. ft./Bbl. Deep. Fuid Type Amt. (JC./Stage) Mod Type If anions: Fromft. Amt. Mud Type Weight							
VARANT YACTORS: VID I Y Y TD, 3 CO II. P.B. 10						·	
DRACTY FACTORS: Depth	ill Pipe: Size _		Weight	. <u></u>	Collars		
PRACTY FACTORS: Depth	xen Hole: Size _	12 19	<u> </u>	<u>この</u> ft.	P.B. to	ft.	Float Equip: Manufacturer
sing: Bbb/Lin. II	APACITY FACTO	DRS:					
Dentroles: Bbls/Lin. ft	ising:	Bbls/Lin. ft.	-064	,- Lin. ft./E	3bl		
II Pipe: Bbls/Lin. ftLin. ft./BblSpecial EquipSpecial EquipAmt_I I Bbls. Weight Bbls/Lin. ftLin. ft./BblDisp. Fluid TypeAmt_I I Bbls. Weight Disp. Fluid TypeAmt_I I Bbls. Weight Iforations: FromIt. to ft. Amt Mud Type Weight Iforations: FromIt. to ft. Amt Mud Type	en Holes:						
Bills/Lin, It. Lin, II./Bil. Special Equip. Dep. Fuid TypeAmt [2:15] Bible, Weight Identions: From(t. to(t. Amt) Med TypeAmt [2:15] Bible, Weight MMPANY REPRESENTATIVE CEMENTER Lafor Med Type	Il Pipe;						
Bbb/Lin. ft. Lin. ft. / Bbl. Disp. Fluid Type Amt. / E. / S. Bbb. Weight Idorations: From ft. to ft. Amt. Mud Type Weight MPANY REPRESENTATIVE CEMENTER La Louice Weight	•						-
Idealions: From							Disp Fluid Type Gelanger Amile 15 Blue Maishe DDC
MPANY REPRESENTATIVE CEMENTER Laborer TIME PRESSURES PSI FLUID PUMPED DATA AMOM DRILL PPE ANNULUS FOITA Pumped Por BATE DITA Pumped Por BATE MICH DEVELOP ANNULUS FUND PLUID Pumped Por BATE Strart as upfor Strart as upfor	rforations F						
TIME PRESSURES PSI FLUID PUMPED DATA AMENI DILL PIPE CASING ANNULUS TOTAL PUDD Prime Period BUSMIN, TI: 30 TI: 30							Wild Type Yveight Pro
AMEN DILLIPPE ANNULUS TOTAL PUNDED FOR BATE MUSE ANNULUS FLUID PUNDED FOR BUSE MIL. 11:30 11:30 11:30 11:30 11:30 12:50 13:50 14:50 15:50	ompany repr	ESENTATIVE					CEMENTER La Pouc
AMERI DRULPPE ANNULUS POTAL PUMPED Por BATE TIME Period Por BUS Min. 11:30 11:30 11:30 11:30 11:30 11:30 11:30 11:30 12:50 13:03 13:03 13:03 13:03 13:03 13:03 13:03 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 13:05 14:05 15	TIME	PRESSU	RES PSI	FLU	JID PUMPED (DATA	
11:30 11:30 11:30 11:30 11:30 11:30 11:30 11:30 11:30 11:30 11:30 11:30 11:30 12:00 13:00 15:18 10:30 10	AMPM	DRILL PIPE		TOTAL	Pumped Per	RATE	REMARKS .
11:30 Start water Start canait 325 sty Bleigh-Canait 325 sty Bleigh-Canait 325 sty Bleigh-Canait 325 sty StopCanait 4 StopCanait 4 Sto		CASING	ANNOLOS	FLUID	Time Period	Bbls Min,	
12:00 Man K 104 Man							April d Safety agae they
April 19 - Connext 15 dt 4 Stop Cannext 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 15.18 15.18 15.5700 15.5700 15.5700	11:30						Start water
12:00 	(
12:00 3:0 Wash up prenny & I iny 13:00 IS 18 Displace with water. Comatalia Citoulate. 15 5/25 A. pit							aleigh cause 15 de #
12:00 3:0 Wash up prenny & I ining 12:00 15:18 Displace by it waster, Command alige Cit cultante, 15:55 to, pit)					L	
12-00 Comastalia circulate, 15 stas te, pit							Washup premp & ling
15 stes to, pit	(15.18		Displace with waston,
15 sta pit	12,200						Commantalia circulato.
Mank May Mank May Mank May Mania							
April Hold Safety monoting.							
Mont 109 Mant 109 Mant 109 Manning Hold Safety meeting.							
Monk you Mank you Mank you Mania	,						
Mank 104 Mank 104 Hold Safety meeting.							
Mank 104 Mank 104 Hold Safety meeting.							
Mank 109 Mank 109 Mank 109 Manine Hold Safety meeting.							······································
Mant 109 Mant 109 Hotel Safety meeting.							
Mont 104 Hold Safety meeting.							• • • • • • • • • • • • • • • • • • •
Mant 104 Hold Safety meeting.						· · · · · · · · · · · · · · · · · · ·	
Mank 104 Hank 104 Hold Safety meeting.				·····, · ·			
Mank 104 Hold Safety meeting.							
Anonk 409 Hold Safety meeting.				<u></u>			
Havi Hald Safety meeting.			/X	(40	24		
All Hold Safety meeting.		$\leq _{\mathcal{A}} $	pn1	_[]			h
A Amine Atold Savery meating.		100		/ A	j		$ _{1} \leq \rho_{1}$
- Althonia -		1		$\Delta \square$,		Att les sately meeting.
- ALVY TO I		and Streemen	$-\Delta$	2X1			
		A	LIK	2194	UTOF .		
	······	1	94		I		

BEREXCO, LLC. MICHAEL #10-22 NESENWSW 22 1S-36W RAWLINS COUNTY, KANSAS

ł

GEOLOGIST WILLIAM B. BYNOG

RESUME

OPERATOR:	BEREXCO, LLC.
WELL NAME & NUMBER:	MICHAEL #10-22
LOCATION:	NESENWSW 22-1S-36W
COUNTY:	RAWLINS
STATE:	KANSAS
SPUD DATE: 1-15-2015	COMPLETION DATE: 1-25-2015
ELEVATIONS:	GL: 3109 KB: 3120
CONTRACTOR:	BEREDCO RIG 10
LOGS: LOG TECH	TYPES: RAG, MICROLOG
WELLSITE ENGINEER:	NONE
MUD COMPANY:	MORGAN MUD
MUD TYPE & ENGINEER:	FRESH CHEMICAL
GEOLOGIST:	WILLIAM B.BYNOG
HOLE SIZE:	7 7/8
MUD LOGGING BY:	NONE
DRILL STEM TEST COMPANY:	TRILOBITE
DRILL STEM TEST:	DST # 1 3990-4100, DST#2 4075-4180, DST#3 4134-4200, DST#4 4190-4300
WELL STATUS:	P & A

DISCUSSION

Michael #10-22 1S-36W was drilled a total depth of 4400 feet testing the Lansing Kansas City in Rawlins County, Kansas. This well was drilled with the help of seismic data and well control.

Structurally, Michael #10-22 came in 6 feet high to the prognosis and low to productive wells in the area.

As a result of running low there were poor sample shows of dead oil stain and poor porosity development in Foraker, Topeka and Oread. The Lansing A zone was the first quality show and was tested on drill stem test #1 recovering only 5 feet of mud with depleted pressures. The B zone was associated with a good drilling break and good sample shows. Drill stem test # 2 on the B zone recovered 188 feet of total fluid, 283 feet of oil cut mud (20% oil), 441 feet of oil cut mud (10% oil) and 464 feet of mud cut water. The C zone also had a good drilling break with good oil shows. Drill stem test #3 only recovered 5 feet of mud cut oil (55% oil). The D and E had poor shows and were tested on drill stem test #4 recovering 836 feet of water with some oil spots.

Logs agreed with sample evaluation recording fair porosity development but low resistive porous zones indicating water or depleted reservoirs.

A decision was made to plug and abandon due to the lack of favorable drill stem test recoveries.

MICHAEL #10-22 SAMPLE DESCRIPTIONS BEREDCO DRILLING RIG 10 HOLE SIZE 7 7/8

3600-30 SHALE red, firm, very argillaceous, silty in part

FORAKER

3630-44 LIMESTONE white, firm, chalky, fossils, poor vis porosity, rare black dead stain, no free oil

3644-68 LIMESTONE tan, very hard, dense, slightly fossils, sandy in part, no shows with thin SHALE gray, gray green, firm, fissile

3668-80 LIMESTONE buff, firm, very sandy, chalky in part, poor vis porosity, no shows

3680-3710 SHALE gray green, red,, firm, sandy in part, with thin LIMESTONE as above

3710-24 LIMESTONE buff, very hard, dense, blocky, crptoxln

3724-3800 SHALE red, firm, silty in part with thin LIMESTONE as above very dense, no shows

3800-30 LIMESTONE buff, pale yell, hard, slightly fossils, slightly chalky in part, few pieces with poor vis pinpoint porosity, very spotty black dead stain, no free oil

3830-48 SHALE red, firm, argillaceous

TOPEKA

MICHAEL #10-22 SAMPLE DESCRIPTIONS 3848-80 LIMESTONE buff, pale yell, hard, chalky in part, microcrystalline, poor porosity, no shows

3880-88 SHALE as above

3888-3906 SANDSTONE white, friable, very fine grained, wsrtd, chalky cement, fair porosity, no shows

3906-62 SHALE red,maroon,green,firm,very silty with thin LIMESTONE buff,very hard,dense,no shows

OREAD

3962-68 LIMESTONE buff, hard, blocky, sbchky in part, poor porosity, no shows

3968-78 LIMESTONE white, firm, very chalky, slightly oolitic, sandy in part, poor vis porosity, trace rare black dead stain, no free oil

3978-4016 LIMESTONE buff, pale gray, very hard, dense, crptoxln

4016-44 SHALE dark gray black, black, slightly hard, fissile, slightly carbonaceous with thin LIMESTONE tan, very hard, very dense

4044-64 SHALE red, very soft, very argillaceous

LANSING A

4064-72 LIMESTONE, white, firm, chalky in part, fossils, poor to fair intergranular porosity, spotty live brown stain, fair strmg cut, no show free oil

MICHAEL #10-22 SAMPLE DESCRIPTIONS

4072-82 LIMESTONE buff, very hard, very dense, crptoxln texture, no shows with thin SHALE as above

4082-90 SANDSTONE white, friable, very fine grained, chalk cement, poor vis porosity, very spotty live brown stain, slightly fair cut, trace free oil

4090-4122 SHALE red, very soft, very argillaceous

В

4122-32 GRAINSTONE white, firm, oolitic, chalky, fair intergranular porosity, spotty thick live stain, slightly gd milky cut, no free oil

4132-40 LIMESTONE buff, pale gray, hard, sbchky in part, dense, poor vis porosity

4240-60 SHALE red,green,firm,waxy in part with thin LIMESTONE buff,hard,dense,no shows

4160-80 SHALE red, firm, chalky, argillaceous

С

4180-86 GRAINSTONE white,firm,oolitic,chalky in part,poor some fair intergranular porosity,spotty live brown stain,good cut,fair show free oil

4186-96 LIMESTONE buff, hard, blocky, dense, crptoxln, no shows

4196-4228 SHALE pale green, firm, argillaceous, waxy in part

MICHAEL #10-22 SAMPLE DESCRIPTIONS

D

4228-34 LIMESTONE white, slightly hard, fossils, chalky in part, poor vis porosity, no shows

4234-44 LIMESTONE buff, very hard, dense, blocky, crptoxln, no shows with thin SHALE as above

4244-66 SHALE red, firm, chalky, argillaceous

Е

4266-74 LIMESTONE white, firm, chalky, slightly fossils, poor microcrystalline porosity, very spotty live brown stain, good cut, fair show free oil

4274-82 LIMESTONE white, firm, very chalky, poor vis porosity, no shows

4282-4306 SHALE red, firm, very silty in part

F

4306-36 LIMESTONE buff, hard, blocky, dense, chalky in part, poor porosity, no shows with thin SHALE as above

4336-4400 SHALE red, green, firm, chalky, silty in part with thin LIMESTONE as above

RTD 4400'

MICHAEL #10-22 SAMPLE DESCRIPTIONS

LTD 4395'

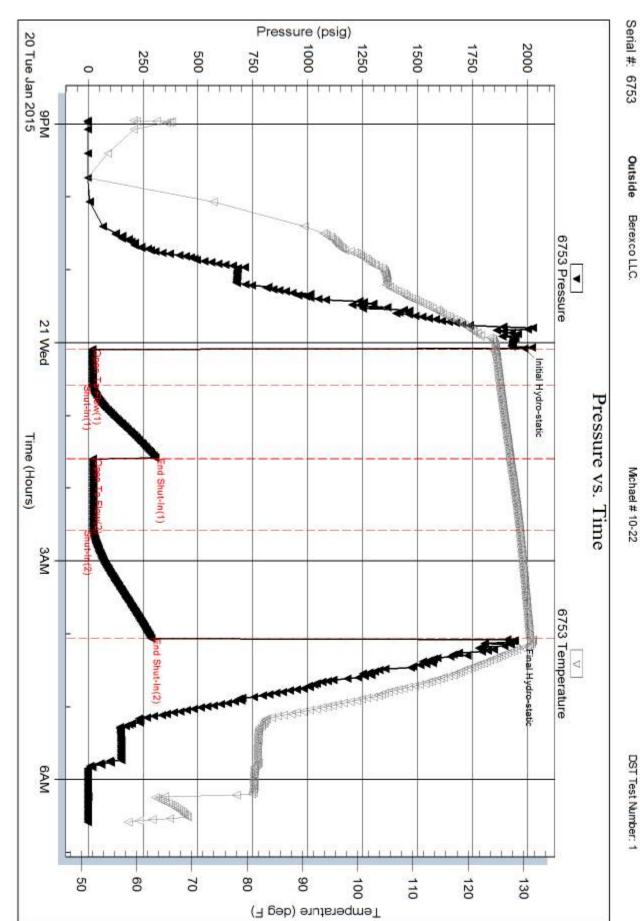
	DRILL STEM TES	T REPO	ORT				
	Berexco LLC.		22-1	S-36W			
ESTING , INC	2020 Bramblew ood Wichita, KS, 67206			iael # 1 icket: 62		DST#:	4
	ATTN: Bryan Bynog				15.01.20 @		
GENERAL INFORMATION:							
Formation:LKC "A"Deviated:NoWhipstock:Time Tool Opened:00:05:15Time Test Ended:06:35:30	ft (KB)		Test T Teste Unit N	r: D	Conventiona Conovan Ba 4	al Bottom Ho aumann	ble (Initial)
Interval:3990.00 ft (KB) To4Total Depth:4100.00 ft (KB) (THole Diameter:7.88 inches Hole			Refer	ence ⊟ev KB to	vations:) ft (KB)) ft (CF)) ft
Serial #: 6753 Outside Press@RunDepth: 23.30 psig Start Date: 2015.01.20 Start Time: 20:57:05 TEST COMMENT: 30 - IF - Weak st 60 - ISI - No return	End Date: End Time: urface blow built to 1/2 in. in 5 min. rn			:m: 2	015.01.21	8000.00 2015.01.21 @ 00:05:00 @ 04:05:30)
90 - FSI - No ret	ime	died in 50 mir		ESSUR	E SUMM	IARY	
G G G G G G G G G G G G G G G G G G G	CERTIFICATION OF CARACITATION OF CARACITATIONO	Time (Min.) 0 1 30 90 91 150 239 241	Pressure (psig)	Temp (deg F) 125.04 124.31 125.76 127.58 127.48 129.33 131.16	Annotation Annotation Open To F Shut-In(1) End Shut-In Open To F Shut-In(2) End Shut-In Final Hydro	on ro-static Flow (1) In(1) Flow (2) In(2)	
Recovery			,		Rates		
Length (ft) Description 5.00 Mud - 100M	Volume (bbl) 0.02			Choke (in	iches) Pressi	ure (psig) G	Sas Rate (Mcf/d)
Trilobite Testina. Inc	Ref. No: 62144					@ 08:21:1	

1005		DRI	LL STEM TEST REPOR	Т		FLUID S	
	RILOBITE	Berexo	co LLC.	22-1S-36V	v		
ESTING , INC		2020 E	2020 Bramblew ood		# 10-22		
		Wichita	a, KS, 67206	Job Ticket:	62144	DST#: 1	
		ATTN:	Bryan Bynog	Test Start:	2015.01.20 @ 20	-	
ud and Cu	shion Information	4					
ud Type: Ge	el Chem		Cushion Type:		Oil API:		deg API
ud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:		ppm
scosity:	50.00 sec/qt		Cushion Volume:	bbl			
ater Loss:	7.20 in ³		Gas Cushion Type:				
esistivity:	0.00 ohm.m		Gas Cushion Pressure:	psig			
alinity:	900.00 ppm						
ter Cake:	2.00 inches						
ecovery In	formation						
	·		Recovery Table		-		
	Leng		Description	Volume bbl			
		5.00	Mud - 100M	0.02	5		
	Total Length:	5	.00 ft Total Volume: 0.025 bbl				
	Num Fluid Sam		Num Gas Bombs: 0	Serial #	# :		
	Laboratory Na		Laboratory Location:				
	Recovery Com	nments:					

Printed: 2015.01.21 @ 08:21:20

Ref. No: 62144

Trilobite Testing, Inc



Serial #: 6753 Outside Berexco LLC.

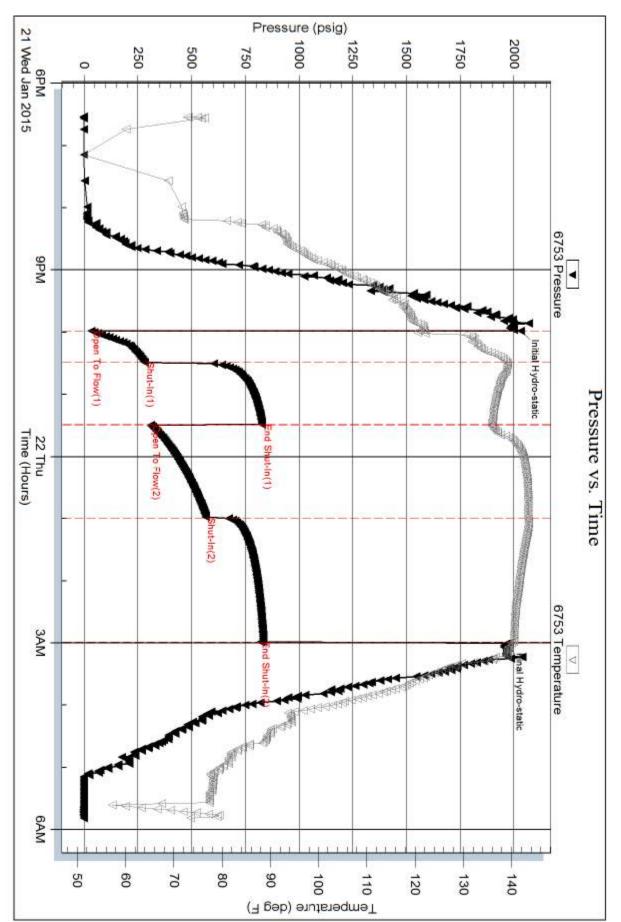
	DRILL STEM TES	T REP	ORT				
	Berexco LLC.		22-1	S-36W			
ESTING , INC	2020 N Bramblew ood Wichita, KS, 67206			hael # 1 Ficket: 62		DOT	
	ATTN: Bryan Bynog					DST @ 18:32:0	
GENERAL INFORMATION:							
Formation:LKC "B"Deviated:NoWhipstock:Time Tool Opened:21:58:45Time Test Ended:05:49:00	ft (KB)		Test Teste Unit M	er: D	Conventior Donovan E 54		Hole (Initial)
Interval:4075.00 ft (KB) To41Total Depth:4160.00 ft (KB) (TNHole Diameter:7.88 inches Hole			Refe	rence Ele [.] KB to	vations: o GR/CF:	3109.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 6753 Outside Press@RunDepth: 567.69 psig Start Date: 2015.01.21 Start Time: 18:32:05 TEST COMMENT: 30 - IF - Strong s 60 - ISI - No return	End Date: End Time: urface blow built to BOB in 5 min.	2015.01.22 05:49:00 (In Diesel)	Capacity: Last Calib Time On B Time Off E	Stm: 2		8000. 2015.01. 1 @ 21:58: 2 @ 03:01:	30
90 - FF - Weak s 120 - FSI - No re Pressure vs. T 0705 Pressure			PR	ESSUR	E SUM	MARY	
553 hours 553 hours 554 hours	653 imposive 653 imposive 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Time (Min.) 0 1 31 91 91 181 301 303	Pressure (psig) 2033.12 34.38 282.15 828.47 311.23 567.69 820.86 1961.21	120.75 139.02 136.03 135.80 143.42 140.46	Open To Shut-In(1 End Shut Open To Shut-In(2	Iro-static Flow (1)) -In(1) Flow (2) 2) -In(2)	
Recovery					s Rates		· · · · ·
Length (ft) Description 464.00 MCW - 10M - 90W 441.00 OCM - 100 - 90M 283.00 OCM - 200 - 80M	Volume (bbl) 2.28 6.18 3.97			Choke (ir	nches) Pres	sure (psig)	Gas Rate (Mcf/d)

10D		DRI	LL STEM TEST REPORT	Γ	F	
	RILOBITE	Berexo	o LLC.	22-1S-36V	V	
	ESTING , INC	2020 N	Bramblew ood	Michael #	ŧ 10-22	
			a, KS, 67206	Job Ticket: 6		DST#:2
V 37		ATTN:	Bryan Bynog		2015.01.21 @ 18	
Mud and Cu	shion Information					
	el Chem		Cushion Type:		Oil API:	deg API
/lud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	27000 ppm
/iscosity:	72.00 sec/qt		Cushion Volume:	bbl		_
Vater Loss:	6.80 in ³		Gas Cushion Type:			
Resistivity:	0.00 ohm.m		Gas Cushion Pressure:	psig		
Salinity:	800.00 ppm			po.9		
ilter Cake:	2.00 inches					
Recovery In	formation					
			Recovery Table		-	
	Leng ft	th	Description	Volume bbl		
		464.00	MCW - 10M - 90W	2.282	2	
		441.00	OCM - 10o - 90M	6.179	9	
		283.00	OCM - 200 - 80M	3.97	<u>)</u>	
	Recovery Com	nents: Al	PI RW3 @ 61 DEG.			

Printed: 2015.01.22 @ 08:32:33

Ref. No: 62145

Trilobite Testing, Inc



Serial #: 6753 Outside E

Outside Berexco LLC.

Michael # 10-22

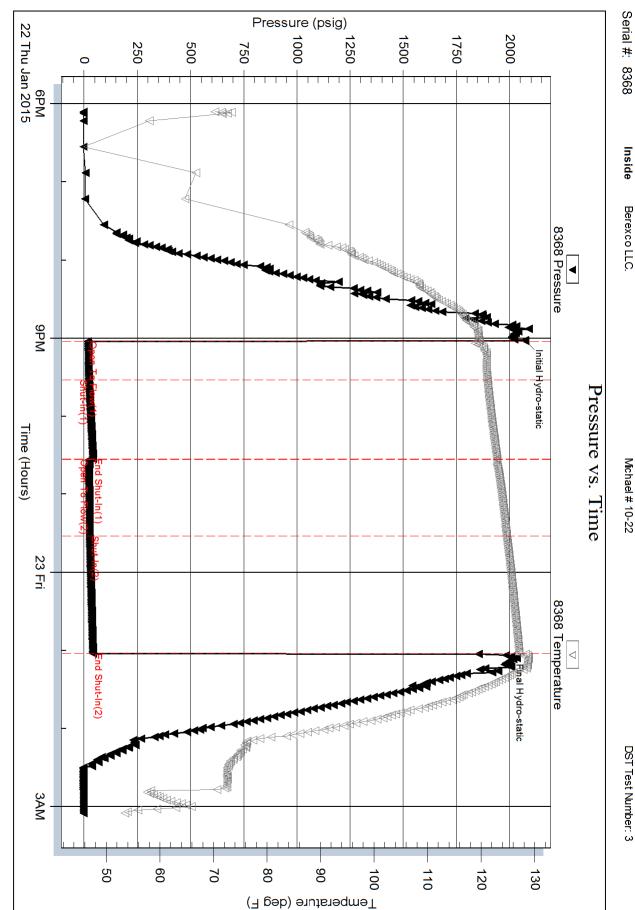
	DRILL STEM TES	TREP	ORT				
RILOBITE	Berexco LLC.		22-	1S-36W			
ESTING , INC.	2020 N Bramblew ood Wichita, KS, 67206			:hael # ' Ticket: 62		DST	.
	ATTN: Bryan Bynog					@ 18:06:0	
GENERAL INFORMATION:							
Formation:LKC "C"Deviated:NoWhipstock:Time Tool Opened:21:02:15Time Test Ended:03:05:30	ft (KB)		Test Test Unit	ter: [Conventio Donovan I 54		Hole (Initial)
Interval:4134.00 ft (KB) To42Total Depth:4200.00 ft (KB) (The second secon			Refe	erence Ele KB te	evations: o GR/CF:	3109	.00 ft (KB) .00 ft (CF) .00 ft
Serial #: 8368 Inside Press@RunDepth: 26.17 psig Start Date: 2015.01.22 Start Time: 18:06:05 TEST COMMENT: 30 - IF - Weak st 60 - ISI - No retu 60 - FF - Weak st 90 - FSI - No retu 60 - FSI - No retu	End Date: End Time: urface blow built to 1 1/2 in. in 30 m rn urface blow died in 10 min.	2015.01.23 03:05:30 nin. (In Diesel	Capacity: Last Calit Time On I Time Off	o.: Btm: 2		8000 2015.01 2 @ 21:02 3 @ 01:03	:00
Pressure vs. 7	ime		PF	RESSUR		MARY	
2 Pude 205 Trace	SBS Temporare 303 Temporare 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Time (Min.) 0 1 30 91 91 150 241 242	Pressure (psig) 2072.31 16.90 22.33 42.26 24.45 26.17 41.89 1981.39	Temp (deg F) 119.73 119.11 121.16 122.94	Annota Initial Hy Open To Shut-In(End Shu Open To Shut-In(End Shu	tion dro-static Flow (1) 1) t-ln(1) Flow (2) 2)	
Recovery				Ga	s Rates		
Length (ft) Description	Volume (bbl)			Choke (ii		ssure (psig)	Gas Rate (Mcf/d)
5.00 MCO - 45M - 550	0.02			1	I		•

(Th-		DRI	LL STEM TEST F	REPORT	Г		FLUID S	
	RILOBITE	Berexc	o LLC.		22-1S-36V	N		
ESTING , INC.			2020 N Bramblew ood Wichita, KS, 67206		Michael # 10-22			
		WICHILd	, K3, 07200		Job Ticket:	62146	DST#:3	
		ATTN:	Bryan Bynog		Test Start:	2015.01.22 @ 1	8:06:00	
Mud and Cu	shion Information							
• •	el Chem		Cushion Type:			Oil A PI:		deg API
Mud Weight:	9.00 lb/gal		Cushion Length:		ft	Water Salinity:		ppm
Viscosity:	59.00 sec/qt		Cushion Volume:		bbl			
Water Loss:	6.00 in ³		Gas Cushion Type:					
Resistivity: Salinity:	0.00 ohm.m		Gas Cushion Pressure	:	psig			
Filter Cake:	1000.00 ppm 2.00 inches							
Recovery In	formation							
	r		Recovery Table		1	-		
	Leng ft	th	Description		Volume bbl			
		5.00	MCO - 45M - 550		0.02	25		
	Total Length:	5	.00 ft Total Volume:	0.025 bbl				
	Num Fluid Samp	oles: 0	Num Gas Bombs:	0	Serial #	#:		
	Laboratory Nam	ne:	Laboratory Locatio	n:				
	Recovery Com	ments:						

Printed: 2015.01.23 @ 07:07:02

Ref. No: 62146





Inside Berexco LLC.

Michael # 10-22

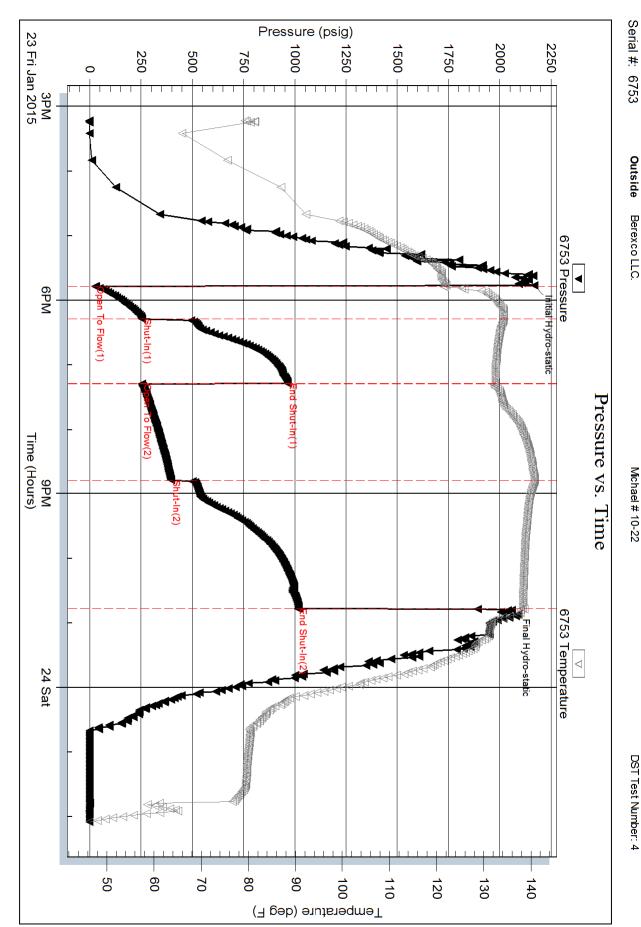
RILOBITE	DRILL STEM TES	TREP	ORT				
	Berexco LLC.		22-1	S-36W			
ESTING , INC	2020 N Bramblew ood Wichita, KS, 67206			ael # 1		DST#	+- <i>A</i>
	ATTN: Bryan Bynog				147 15.01.23 @		
GENERAL INFORMATION:							
Formation:LKC "D&E"Deviated:NoWhipstock:Time Tool Opened:17:47:00Time Test Ended:02:05:30	ft (KB)		Test T Tester Unit N	r: D	onovan Ba		Hole (Initial)
Interval:4190.00 ft (KB) To430Total Depth:4300.00 ft (KB) (TVHole Diameter:7.88 inches Hole			Refere	ence Elev KB to	vations: GR/CF:	3109.0	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 6753 Outside Press@RunDepth: 396.18 psig Start Date: 2015.01.23 Start Time: 15:13:05 TEST COMMENT: 30 - IF - Strong si 60 - ISI - No retur 90 - FF - Weak si	End Date: End Time: urface blow built to BOB in 7 min.		Capacity: Last Calib.: Time On Bt Time Off Bi 17 min.	m: 20	015.01.23 015.01.23	2015.01.2 @ 17:46:3	30
120 - FSI - No re Pressure vs. Ti	пе		PRE	ESSURI	E SUMM	ARY	
220 5073 Pressee 5073 Pressee 507 P	COST Compandance COST Compand	Time (Min.) 0 1 31 91 92 182 301 302	Pressure (psig) 2169.05 26.96 254.68 964.78 254.29 396.18 1013.52	Temp (deg F) 122.05 121.44 134.27 132.46 132.22 140.72 138.27	Annotatio Initial Hydr Open To F Shut-In(1) End Shut-I Open To F Shut-In(2) End Shut-I Final Hydro	o-static low (1) n(1) low (2) n(2)	
Recovery					Rates		
Length (ft) Description 406.00 MCW - 15M - 85W 430.00 OSM - 100M - Oil spots	Volume (bbl) 2.00 5.50			Choke (inc	ches) Pressu	ure (psig)	Gas Rate (Mct/d)
	Ref No: 62147				2015.01.24		

		ILL STEM TEST REPOR	Г		FLUID SI	JMMAR
RILOBI	Berex	Berexco LLC. 2020 N Bramblew ood Wichita, KS, 67206		V		
I ESTI				10-22	DST#:4	
	ATTN	Bryan Bynog	Job Ticket: 6 Test Start: 2	2015.01.23 @ 1	-	
Mud and Cushion Info	ormation					
Mud Type:Gel ChemMud Weight:9.00 lbViscosity:77.00 sWater Loss:6.80 irResistivity:0.00 oSalinity:1100.00 pFilter Cake:2.00 ir	ec/qt 1 ³ hm.m 19pm	Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	ft bbl psig	Oil API: Water Salinity:		deg API ppm
Recovery Information		Decement Table				
		Recovery Table		7		
	Length ft	Description	Volume bbl			
	406.00	MCW - 15M - 85W	1.997			
	430.00 al Length: 83	OSM - 100M - Oil spots 5.00 ft Total Volume: 7.494 bbl	5.497	<u>/</u>		
Lat	m Fluid Samples: 0 boratory Name: covery Comments:	Num Gas Bombs: 0 Laboratory Location:	Serial #	:		

Printed: 2015.01.24 @ 07:01:30

Ref. No: 62147

Trilobite Testing, Inc



	C
WELL' HLE	en e
ALLED OU O CAG	
ALLIED VIL & GAR	S SERVICES, LLC 064874
Federal Tax I,D.	# 20-8651475
REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	SERVICE POINT:
	pakley
DATE 1-25-15 22 TWP. RANGE CA	LLED OUT ON LOCATION JOB START JOB FINISH
mich 69.6-	COUNTY STATE
	SLEY NO TO ALL REGILINS 45
OLD OR (NEW Circle one) 5/215 sin to	
CONTRACTOR BERESCO 10	OWNER Same
TYPE OF JOB PTA	OWNER OGANS
HOLE SIZE 7 1/1 T.D. 4400*	CEMENT
CASING SIZE DEPTH	AMOUNT ORDERED 255 3/5 4/40
TUBING SIZE DEPTH	Whyer HAD-seals
DRILL PIPE 412 DEPTH 3060	· •
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON@
MEAS. LINE SHOE JOIN'T	POZMIX@
CEMENT LEFT IN CSG.	GEL @
PERFS.	CHLORIDE@
DISPLACEMENT	AŠĆ@
EQUIPMENT	4910 4%, g=1- 255510@ 18,92 4824,62
PUMPTRUCK CEMENTER Andrey Forstud	· · · · · · · · · · · · · · · · · · ·
# 431 HELPER Darsen Racette.	<u>ELD-Seal 63.75 @ 2.97 189.23</u>
BULKTRUCK	Materiel Total @ \ J.01393
# 891 DRIVER WALDE MESSELE	because for the hard and a second
BULKTRUCK	·(2005.57/402)
# DRIVER	HANDLING 223,87 Cy/FT @ 2,48 679,19
	MILEAGE 2. 25 for the Use 1143 for 15 21162
REMARKS:	2
KEIMARKS:	TOTAL
50 5KS @ 3060'	SERVICE
IND 543 @ 23.80	OBRVICO
51) SKS @ 350'	DEPTH OF JOB 3060
10 SKJ @ 40'	PUMP TRUCK CHARGE
15 Strs Mpuse Late	EXTRA FOOTAGE @
30 stas Rathole.	MILEAGE 50 miles @ 7,28 385,00
	MANIFOLD @
Thank you	highrielyicle @ 4140 M/Es
	@
CHARGE TO: Beserco	(anou silving)
	(00-4.51-10-3) TOTAL J. 236.28
STREET	· · · · · · · · · · · · · · · · · · ·
CITYSTATEZIP	
VIII + American and American and American	PLUG & FLOAT EQUIPMENT
	818
	1 ANY MALE PLUS @ 110100
To: Allied Oil & Gas Services, LLC.	©
You are hereby requested to rent cementing equipment	
and furnish cementer and helper(s) to assist owner or	@
contractor to do work as is listed. The above work was	and many more and and the
done to satisfaction and supervision of owner agent or	TOTAL _//0.00
contractor. I have read and understand the "GENERAL	
TERMS AND CONDITIONS" listed on the reverse side.	SALES TAX (If Any)
i pranto mare compristorio listed dil me reverse side.	TOTAL CHARGES 10.360.21
r OBaran	TUTAL CHARGES IL TOTO OF OCT
PRINTED NAME FRED KORIMM	DISCOUNT 4,100.08 403) F PAID IN 30 DAYS

G, aco. 12. Net.

*•

PRINTED NAME	FRED	RGRIMM
	1)	M/i
SIGNATURE	thed	Rfmi

	ALT	IED)		CE		STAGE NO.
1.0	DIL & GAS SE $5 - 15$		C elec			CEMENT DATA:	
Company	Berex Chael			lig Bered	-48/9 (0) 10 -22	Spacer Type: U)g + er Amt.	ft³/sk Density PPG
County Regult : 15 State State							hrs. Type 6/40 4969 24
Brack Sley N TD PA 5 ⁻¹ / ₂₄ Sine FD CASING DATA: Conductor PTA D Squeeze Misc D Surface Intermediate Production Liner D						14 FLD - 58: G 1 Amt. 25:5 Sks Yield 1' 4 TAIL: Pump Time	
Size Type Weight Collar						Amt Sks Yield	_ ft³/sk DensityPPG
Casing Depths:	Тор		Bottom			WATER: Lead gals/sk Tail Pump Trucks Used4.31	gals/sk Total Bbls.
						Bulk Equip. <u>S</u> 9/	
Drill Pipe: Size						Float Equip: Manufacturer Shoe: Type Float: Type Centralizers: Quantity Stage Collars Special Equip. Disp. Fluid Type Mud Type	Depth Depth Btm Btm Btm Btm
COMPANY REPI	RESENTATIVE			· · · · · · · · · · · · · · · · · · ·		CEMENTER Andrew	
TIME AM/PM	PRESSU DRILL PIPE CASING	RES PSI ANNULUS	FLU TOTAL FLUID	JID PUMPED I Pumped Per Time Period	DATA RATE Bbls Min.	REMARK	S
				57 8 35,57 5 16 5 21,39		Dame Water Mix centent Dump Water Pump Mus d Pump water Mix Centent pump water Pump water Pump Mud Pump Mud Pump Mud Pump water Mix centent Mix centent	<u>30[2]</u> 2280 (
				21.39 5		PUMP Wigter PUMP Mud PUMP Mud Pump Moter	350 -
· · · · · · · · · · · · · · · · · · ·				3 		Mix cement pumpulater	
				2,5		Pumpulater Mix comente Mix Comente Mix Comente Mix Comente	Mouscherie Rathole
					·		

. .

BEREXCO LLC.

INTER-OFFICE

DATE:	January 5, 2015					
TO:	Micheal 10-22 well file					
CC:						
FROM:	Ryan Pfeifer					
SUBJECT:	Location					

During building of location, the stake was moved 50' North. Therefore, the revised location is 1830' FSL, 1070' FWL. The elevation was unchanged

The original staked location was 1780' FSL, 1070' FWL.