

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1251279
OIL & GAS CONSERVATION DIVISION

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 # _____

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

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

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

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

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 <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 List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes 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	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method:
	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____

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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Walker 10-20
Doc ID	1251279

All Electric Logs Run

Borehole Compensated Sonic Array Log
Dual Spaced Neutron Spectral Density Log
Array Compensated True Resistivity Log
Microlog

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Walker 10-20
Doc ID	1251279

Tops

Name	Top	Datum
Heebner (base)	3830	-968
Toronto	3842	-980
Lansing	3869	-1007
KS City	4232	-1370
KS City (base)	4366	1504
Marmaton	4388	-1426
Pawnee	4464	-1602
Ft. Scott	4496	-1634
Cherokee	4515	-1653
Morrow	4684	-1822
St. Louis	4777	-1915
RTD	4970	-2108
LTD	4964	-2102

ALLIED OIL & GAS SERVICES, LLC 064814

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oadley, KS

DATE <u>1-30-15</u>	SEC <u>20</u>	TWP <u>23</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION <u>7:00 a.m.</u>	JOB START <u>4:00 p.m.</u>	JOB FINISH <u>5:00 p.m.</u>
LEASE <u>Walker</u>	WELL # <u>10-20</u>	LOCATION <u>Garden City N to Lamild,</u>			COUNTY <u>Finney</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)		LOCATION <u>1 E to 3rd, 1.5 S. to Loue, 3/4 E, N into</u>					

CONTRACTOR Bereduco I OWNER Same

TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>1756'</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>1756'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>42'</u>	
PERFS.	
DISPLACEMENT <u>109.18 bbl H₂O</u>	

CEMENT	
AMOUNT ORDERED <u>150 sks Lite (165/35/6)</u>	
<u>3' CC 1/4" Flo-seal, 150 sks Com</u>	
<u>3' CC</u>	
COMMON	<u>150 sks @ 17.90 = 2685.00</u>
POZMIX	@
GEL	@
CHLORIDE	<u>2120 # @ 1.10 = 2332.00</u>
ASC	@
<u>Lite (165/35/6)</u>	<u>150 sks @ 19.88 = 2982.00</u>
<u>Flo-seal</u>	<u>163 # @ 2.97 = 484.11</u>
<u>Materco Rental</u>	<u>@ = 18423.11</u>
<u>(8290.39/45%)</u>	
HANDLING	<u>909.35 @ 2.48 = 2255.00</u>
MILEAGE	<u>1144.88 @ 2.75 = 3148.41</u>
TOTAL _____	

PUMP TRUCK CEMENTER Paul Beaver
431 HELPER Brandon Wilkinson
BULK TRUCK
818/281 DRIVER George Grant
BULK TRUCK
544/198 DRIVER Brian Lang (GB)

REMARKS:

Run Pipe / Float equip / Drop ball, pumped ball through @ 400#, Circ mix 150 sks lite, tail w/ 150 sks com, release plug. Displace w/ water, plug did land @ 700#, Lift 500#, cement did circ (20 bbl to pit)

1 hr waiting charge Thank You!
Paul & Crew

CHARGE TO: Bereduco IIc
STREET _____
CITY _____ STATE _____ ZIP _____

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 TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Arnie Chapman
SIGNATURE Arnie Chapman

SERVICE	
DEPTH OF JOB	<u>1756'</u>
PUMP TRUCK CHARGE	<u>2213.75</u>
EXTRA FOOTAGE	@
MILEAGE M.I.V	<u>30 @ 7.70 = 231.00</u>
MANIFOLD Head	@ <u>N/C</u>
<u>M.I.V</u>	<u>30 @ 4.40 = 132.00</u>
<u>waiting charge</u>	<u>@ = 440.00</u>
TOTAL <u>9,300.36</u>	

PLUG & FLOAT EQUIPMENT	
<u>8 5/8 Industrial Rubber & Weatherford</u>	
<u>(7) 8 5/8 Guide shoe</u>	<u>@ = 460.00</u>
<u>(1) 8 5/8 API Float Valve</u>	<u>@ = 447.00</u>
<u>(1) 8 5/8 Top Rubber Plug</u>	<u>@ = 131.00</u>
<u>(1) Centralizer</u>	<u>@ 75.00 = 75.00</u>
<u>(2) Centralizers</u>	<u>@ 75.00 = 150.00</u>
TOTAL <u>1,263.00</u>	

SALES TAX (If Any) _____
TOTAL CHARGES 28,986.47
DISCOUNT 13043.91 / (45%) IF PAID IN 30 DAYS
15,942.55 Net

Date 1-30-15 District Oakley KS Ticket No. 164814
 Company Berardo Rig Berardo 1
 Lease Walker Well No. 10-20
 County Finnay State KS
 Location 10-23-32 Field _____

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 8 5/8 Type New Weight 24# Collar _____

Casing Depths: Top KB Bottom 1756'

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 12 1/4 T.D. 1756 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbbs/Lin. ft. 206.37 Lin. ft./Bbl. _____
 Open Holes: Bbbs/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbbs/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbbs/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbbs/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type 65/35 6'
gel 3 1/2 CC 1/4# Flo-seal Excess _____
 Amt. 650 Skys Yield 1.97 ft³/sk Density 12.5 PPG

TAIL: Pump Time _____ hrs. Type Com 3 1/2 CC
 Excess _____
 Amt. 150 Skys Yield 1.18 ft³/sk Density 15.5 PPG
 WATER: Lead 10.7 gals/sk Tail 5.2 gals/sk Total _____ Bbbs.

Pump Trucks Used 431 - Brandon W
 Bulk Equip. 818/287 - George
544-198 - Brian Lang

Float Equip: Manufacturer Industrial / Weatherford
 Shoe: Type Guide shoe Depth 1756
 Float: Type AFU Flopper Float valve Depth 1714
 Centralizers: Quantity 3 Plugs Top Btm. _____

Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type water Amt. 109.18 Bbbs. Weight _____ PPG
 Mud Type 40 vis Weight _____ PPG

COMPANY REPRESENTATIVE _____

CEMENTER Paul Beaver

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbbs Min.	
4:50	200		165.57	165.57	6	Hold Safety meeting Run Pipe / Float equip Drop ball / pumped ball through @ 400# Circ 1 hr start cement max 650 skys Lite @ 12.5# tail out 150 skys Com @ 15.5# stop cement release plug Displace w/ water plug did land @ 700# Lift 500#
	200		18.57	184.16	6	
	200		10.0	194.16	4	
	200		10.0	204.16	4	
	200		10.0	214.16	4	
	200		10.0	224.16	4	
	200		10.0	234.16	4	
	300		10.0	244.16	4	
	300		10.0	254.16	4	
	400		10.0	264.16	4	
	400		10.0	274.16	4	
	500		10.0	284.16	3	
5:00	500		9.18	293.34	2	



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: WLKR1-20DST1

TIME ON: 1920 (2/4)
TIME OFF: 0820 (2/5)

Company BEREXCO LLC Lease & Well No. WALKER #10-20
Contractor BEREDCO LLC RIG 1 Charge to BEREXCO LLC
Elevation 2850 GL Formation MARMATON Effective Pay _____ Ft. Ticket No. M748
Date 2/4/2015 Sec. 20 Twp. 23 S Range 32 W County FINNEY State KANSAS
Test Approved By EDWIN H. GRIEVES Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 4419 ft. to 4450 ft. Total Depth 4450 ft.
Packer Depth 4414 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 4419 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4401 ft. Recorder Number 5448 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4421 ft. Recorder Number 0063 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- P.S.I.

Mud Type CHEM Viscosity 50 Drill Collar Length 620 ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 7.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,600 P.P.M. Drill Pipe Length 3767 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 31 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: GSB, BOB 17 MIN (NO BB)
2nd Open: SSB, BUILT TO 9" (NO BB)

Recovered 485 ft. of GIP
Recovered ~5 ft. of CO 100% OIL
Recovered ~130 ft. of HOCM 40% OIL, 60% MUD
Recovered 135 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of <u>GRAVITY: 29.5 @ 60°</u>	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>80% OIL, 20% MUD</u>	Total

Time Set Packer(s) 11:45 P.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 4:15 A.M. ^{A.M.}/_{P.M.} Maximum Temperature 110°F

Initial Hydrostatic Pressure..... (A) 2199 P.S.I.
Initial Flow Period..... Minutes 30 (B) 20 P.S.I. to (C) 42 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 276 P.S.I.
Final Flow Period..... Minutes 60 (E) 48 P.S.I. to (F) 62 P.S.I.
Final Closed In Period..... Minutes 120 (G) 226 P.S.I.
Final Hydrostatic Pressure..... (H) 2178 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	BEREXCO LLC	Job Number	M748
Well Name	WALKER #10-20	Representative	MIKE COCHRAN
Unique Well ID	DST#1 4419-4450 MARMATON	Well Operator	BEREXCO LLC
Surface Location	SEC.20-23S-32W FINNEY CO.KS.	Report Date	2014/02/05
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	EDWIN H. GRIEVES
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#1 4419-4450 MARMATON		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2014/02/04	Start Test Time	19:20:00
Final Test Date	2014/02/05	Final Test Time	08:20:00
		Well Fluid Type	01 Oil
Gauge Name	5448		
Gauge Serial Number			

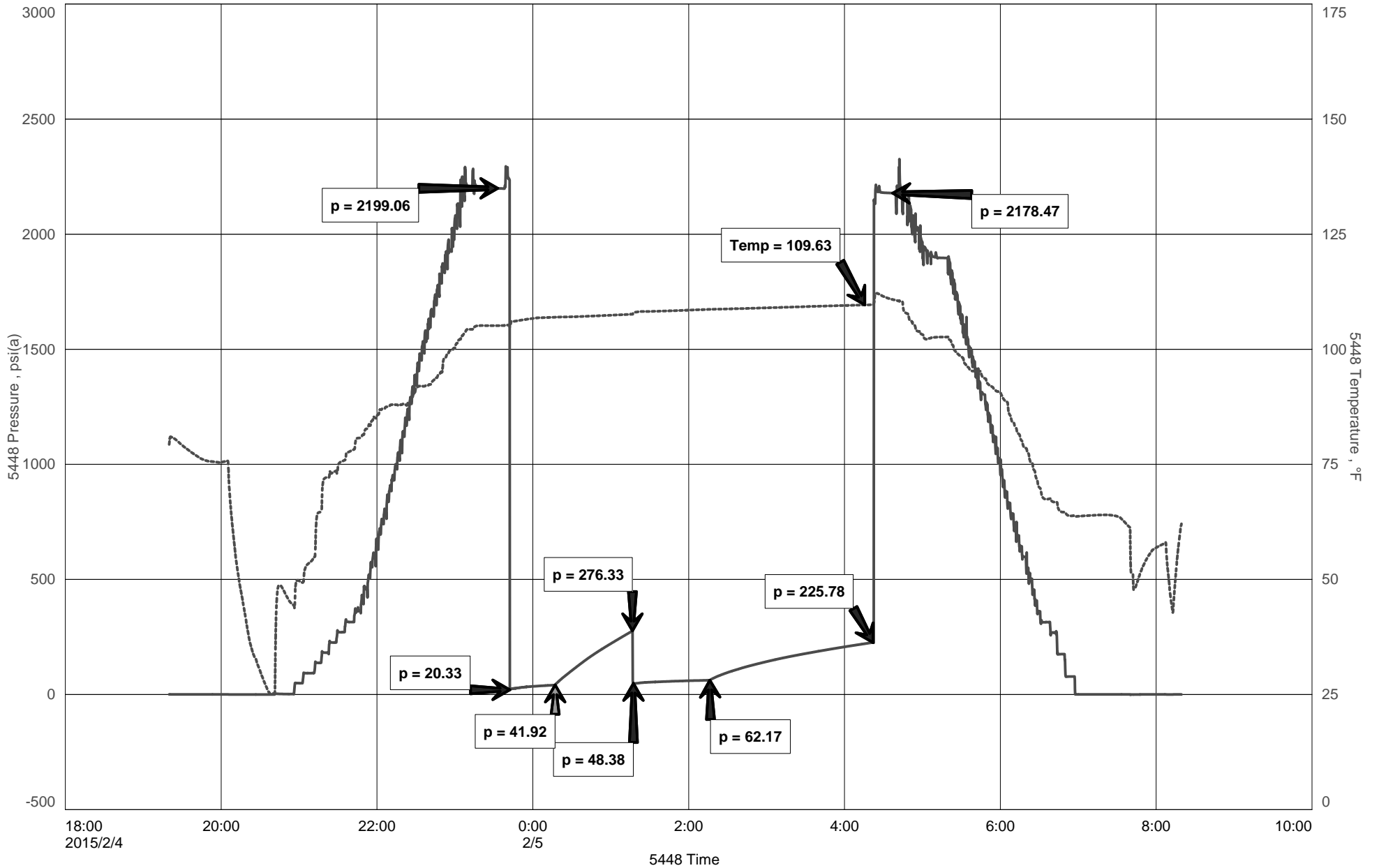
Test Results

Remarks RECOVERED:
485' GIP
~5' CO 100% OIL
~130' HOCM 40% OIL, 60% MUD
135' TOTAL FLUID

GRAVITY: 29.5 @ 60 DEG

TOOL SAMPLE: 80% OIL,20% MUD

WALKER #10-20





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: WLKR1-20DST2

TIME ON: 0415
TIME OFF: 1640

Company BEREXCO LLC Lease & Well No. WALKER #10-20
Contractor BEREDCO LLC RIG 1 Charge to BEREXCO LLC
Elevation 2850 GL Formation FT.SCOTT Effective Pay _____ Ft. Ticket No. M749
Date 2/6/2015 Sec. 20 Twp. 23 S Range 32 W County FINNEY State KANSAS
Test Approved By EDWIN H. GRIEVES Diamond Representative MIKE COCHRAN

Formation Test No. 2 Interval Tested from 4495 ft. to 4515 ft. Total Depth 4515 ft.
Packer Depth 4490 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 4495 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4477 ft. Recorder Number 5448 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4497 ft. Recorder Number 0063 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- P.S.I.

Mud Type CHEM Viscosity 60 Drill Collar Length 620 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 6.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,550 P.P.M. Drill Pipe Length 3843 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 20 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB, BUILT TO 5 1/2" (NO BB)
2nd Open: WSB, BUILT TO 9" (1" BB)

Recovered <u>758</u> ft. of <u>GIP</u>	GRAVITY: <u>31.7 @ 60°</u>
Recovered <u>89</u> ft. of <u>CO 100% OIL</u>	
Recovered <u>177</u> ft. of <u>OCGWM 20% GAS, 45% OIL, 8% WTR, 27% MUD</u>	
Recovered <u>66</u> ft. of <u>GOCWM 26% GAS, 26% OIL, 18% WTR, 30% MUD</u>	
Recovered <u>332</u> ft. of <u>TOTAL FLUID</u>	Price Job
Recovered _____ ft. of <u>CHLOR: 33,000 PPM</u>	Other Charges
Remarks: <u>RW: .27 @ 70 DEG</u>	Insurance
<u>PH: 7.0</u>	
TOOL SAMPLE: <u>2% GAS, 8% OIL, 80% WTR, 10% MUD</u>	Total

Time Set Packer(s) 8:30 A.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 1:00 P.M. ^{A.M.}/_{P.M.} Maximum Temperature 111°F

Initial Hydrostatic Pressure..... (A) 2051 P.S.I.
Initial Flow Period..... Minutes 30 (B) 15 P.S.I. to (C) 54 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 594 P.S.I.
Final Flow Period..... Minutes 60 (E) 62 P.S.I. to (F) 103 P.S.I.
Final Closed In Period..... Minutes 120 (G) 600 P.S.I.
Final Hydrostatic Pressure..... (H) 2011 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	BEREXCO LLC	Job Number	M749
Well Name	WALKER #10-20	Representative	MIKE COCHRAN
Unique Well ID	DST#2 4495-4515 FT.SCOTT	Well Operator	BEREXCO LLC
Surface Location	SEC.20-23S-32W FINNEY CO.KS.	Report Date	2015/02/06
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	EDWIN H. GRIEVES
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#2 4495-4515 FT.SCOTT		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/02/06	Start Test Time	04:15:00
Final Test Date	2015/02/06	Final Test Time	16:40:00
		Well Fluid Type	01 Oil
Gauge Name	5448		
Gauge Serial Number			

Test Results

Remarks RECOVERED:

758' GIP
89' CO 100% OIL
177' OCGWM 20% GAS, 45% OIL, 8% WTR, 27% MUD
66' GOCWM 26% GAS, 26% OIL, 18% WTR, 30% MUD
332' TOTAL FLUID

GRAVITY: 31.7 @ 60 DEG

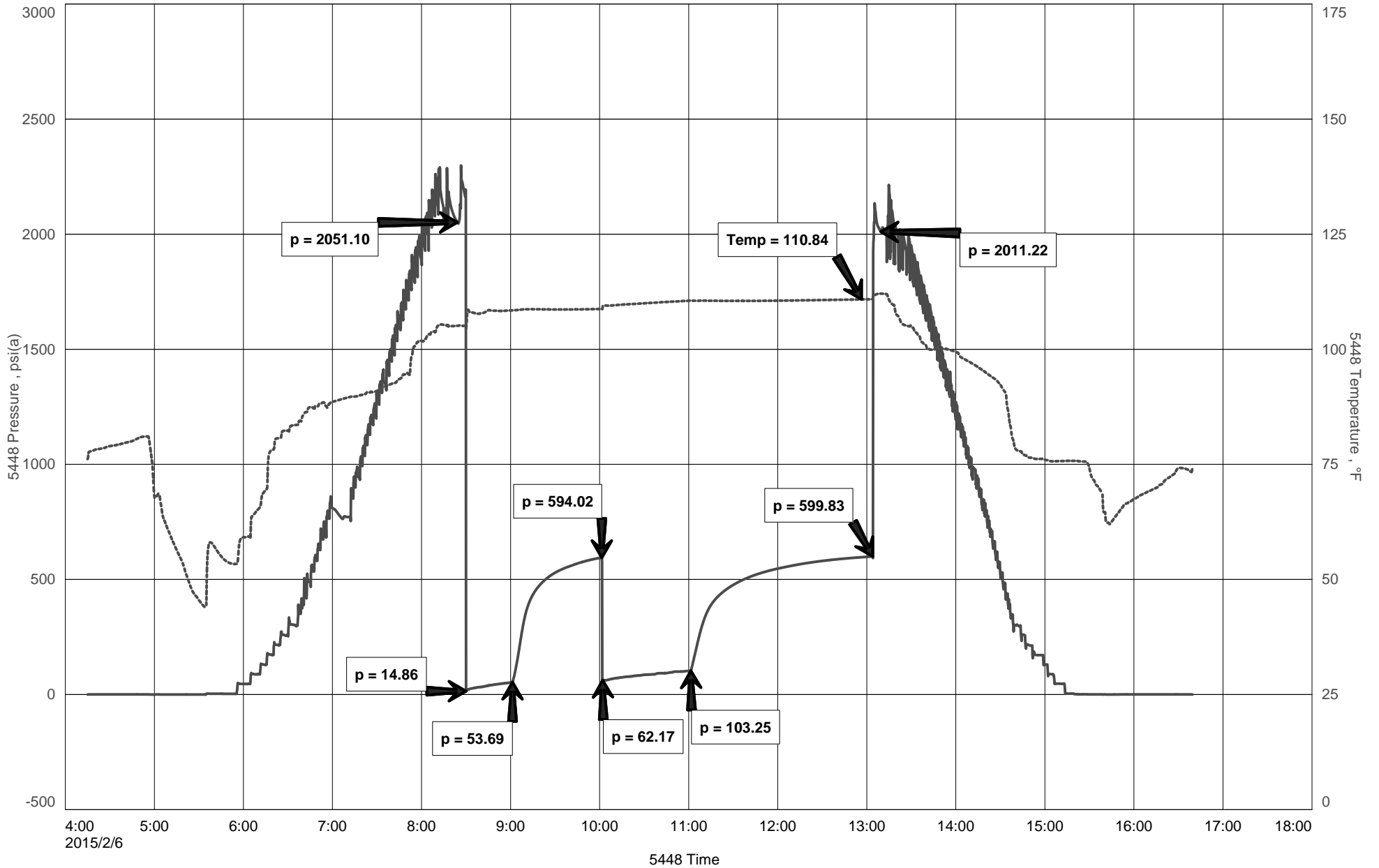
CHLOR: 32,000 PPM

PH:7.0

RW: .27 @ 70 DEG

TOOL SAMPLE: 2% GAS, 8% OIL,80% WTR, 10% MUD

WALKER #10-20





DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: WLKR1-20DST3

TIME ON: 0805
 TIME OFF: 1830

Company BEREXCO LLC Lease & Well No. WALKER #10-20
 Contractor BEREDCO LLC RIG 1 Charge to BEREXCO LLC
 Elevation 2850 GL Formation MORROW SD ST Effective Pay _____ Ft. Ticket No. M750
 Date 2/8/2015 Sec. 20 Twp. _____ 23 S Range _____ 32 W County FINNEY State KANSAS
 Test Approved By EDWIN H. GRIEVES Diamond Representative MIKE COCHRAN

Formation Test No. 3 Interval Tested from 4758 ft. to 4775 ft. Total Depth 4775 ft.
 Packer Depth 4753 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
 Packer Depth 4758 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 4740 ft. Recorder Number 5448 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 4760 ft. Recorder Number 0063 Cap. 5,000 P.S.I.
 Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- P.S.I.

Mud Type CHEM Viscosity 60 Drill Collar Length 620 ft. I.D. 2 1/4 in.
 Weight 9.0 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 2,000 P.P.M. Drill Pipe Length 4106 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 17 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: VWSB, INCREASE TO 1 1/8" (NO BB)
 2nd Open: NO BLOW (NO BB)

Recovered ~45 ft. of GWM 2% GAS, 46% WTR, 52% MUD
 Recovered ~45 ft. of TOTAL FLUID
 Recovered _____ ft. of _____
 Recovered _____ ft. of CHLOR: 32,000 PPM
 Recovered _____ ft. of RW: .30 @ 72 DEG
 Recovered _____ ft. of PH: 7.0
 Remarks: _____
 TOOL SAMPLE: 2% GAS, 43% WTR, 55% MUD

	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 11:45 A.M. P.M. Time Started Off Bottom 3:45 P.M. A.M. P.M. Maximum Temperature 114°F
 Initial Hydrostatic Pressure..... (A) 2214 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 12 P.S.I. to (C) 29 P.S.I.
 Initial Closed In Period..... Minutes 60 (D) 540 P.S.I.
 Final Flow Period..... Minutes 30 (E) 34 P.S.I. to (F) 45 P.S.I.
 Final Closed In Period..... Minutes 120 (G) 524 P.S.I.
 Final Hydrostatic Pressure..... (H) 2207 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	BEREXCO LLC	Job Number	M750
Well Name	WALKER #10-20	Representative	MIKE COCHRAN
Unique Well ID	DST#3 4758-4775 MORROW SD ST	Well Operator	BEREXCO LLC
Surface Location	SEC.20-23S-32W FINNEY CO.KS.	Report Date	2015/02/08
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	EDWIN H. GRIEVES
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#3 4758-4775 MORROW SD ST		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/02/08	Start Test Time	08:05:00
Final Test Date	2015/02/08	Final Test Time	16:30:00
		Well Fluid Type	01 Oil
Gauge Name	5448		
Gauge Serial Number			

Test Results

Remarks **RECOVERED:**

~45' GWM 2% GAS, 46% WTR, 52% MUD
~45' TOTAL FLUID

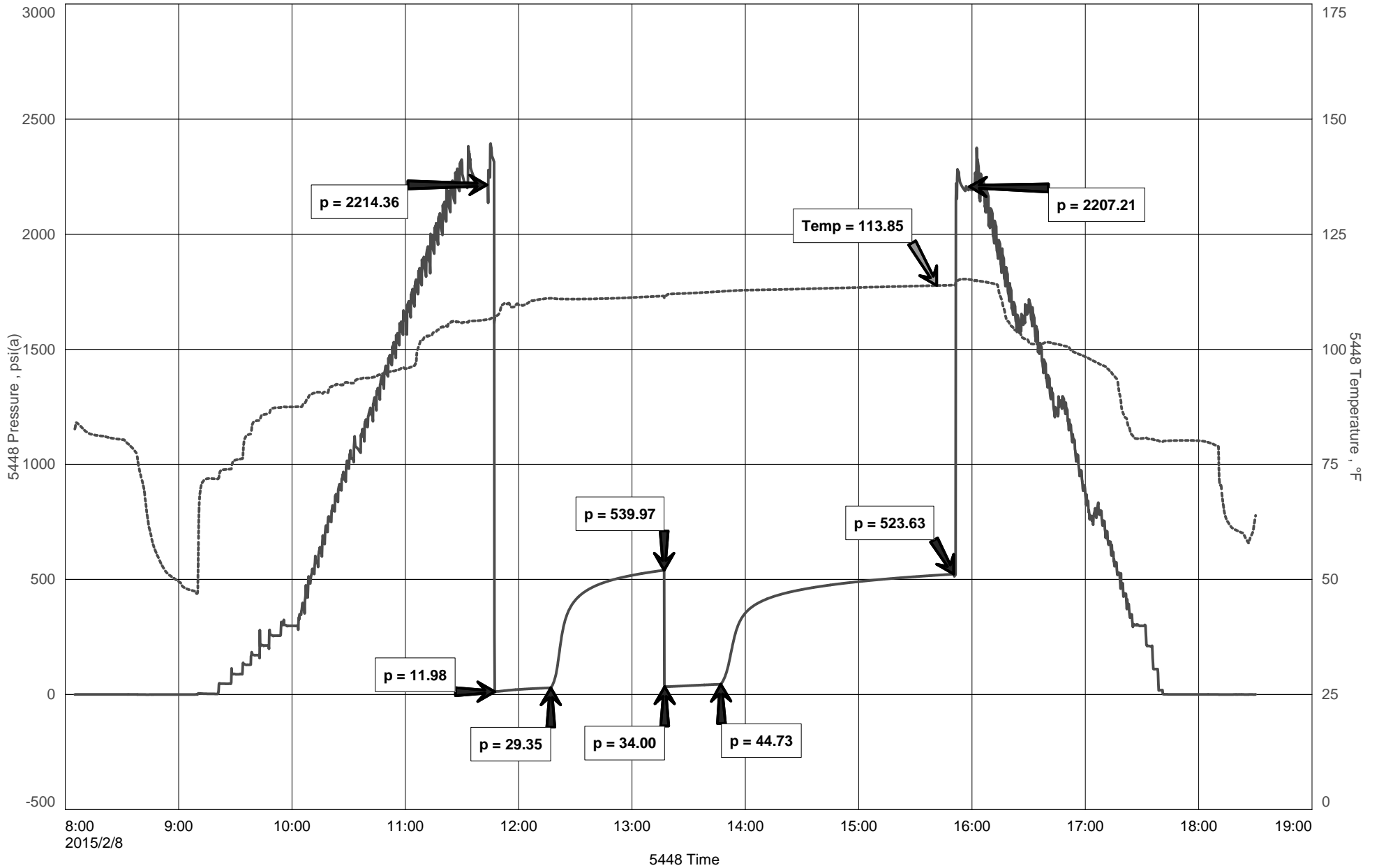
CHLOR: 32,000 PPM
PH:7.0
RW: .30 @ 72 DEG

TOOL SAMPLE: 2% GAS, 43% WTR, 55% MUD

BEREXCO LLC
DST#3 4758-4775 MORROW SD ST
Start Test Date: 2015/02/08
Final Test Date: 2015/02/08

WALKER #10-20
Formation: DST#3 4758-4775 MORROW SD ST
Pool: WILDCAT
Job Number: M750

WALKER #10-20





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: WLKR1-20DST4

TIME ON: 0825
TIME OFF: 2100

Company BEREXCO LLC Lease & Well No. WALKER #10-20
Contractor BEREDCO LLC RIG 1 Charge to BEREXCO LLC
Elevation 2850 GL Formation ST.LOUIS Effective Pay _____ Ft. Ticket No. M751
Date 2/9/2015 Sec. 20 Twp. 23 S Range 32 W County FINNEY State KANSAS
Test Approved By EDWIN H. GRIEVES Diamond Representative MIKE COCHRAN

Formation Test No. 4 Interval Tested from 4773 ft. to 4805 ft. Total Depth 4805 ft.
Packer Depth 4768 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 4773 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4755 ft. Recorder Number 5448 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4775 ft. Recorder Number 0063 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- P.S.I.

Mud Type CHEM Viscosity 57 Drill Collar Length 620 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,100 P.P.M. Drill Pipe Length 4121 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 32 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: SSB, 2" RIGHT AWAY, BOB 7 1/2 MIN (8" BB)
2nd Open: SSB, 3" RIGHT AWAY, BOB 7 MIN (6" BB)

Recovered 1299 ft. of GIP (1220'DP,79' DC) GRAVITY: 29.4 @ 60°
Recovered 253 ft. of GO 4% GAS, 96% OIL (253' DC)
Recovered 288 ft. of WMGO 15% GAS, 66% OIL, 4% WTR, 15% MUD (288'DC)
Recovered 541 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: MOSTLY GAS & SOME MUDDY OIL	Total

Time Set Packer(s) 12:45A.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 5:15 P.M. ^{A.M.}/_{P.M.} Maximum Temperature 114°F

Initial Hydrostatic Pressure..... (A) 2254 P.S.I.
Initial Flow Period..... Minutes 30 (B) 50 P.S.I. to (C) 192 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 311 P.S.I.
Final Flow Period..... Minutes 60 (E) 196 P.S.I. to (F) 253 P.S.I.
Final Closed In Period..... Minutes 120 (G) 310 P.S.I.
Final Hydrostatic Pressure..... (H) 2239 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	BEREXCO LLC	Job Number	M751
Well Name	WALKER #10-20	Representative	MIKE COCHRAN
Unique Well ID	DST#4 4773-4805 ST.LOUIS	Well Operator	BEREXCO LLC
Surface Location	SEC.20-23S-32W FINNEY CO.KS.	Report Date	2015/08/09
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	EDWIN H. GRIEVES
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#4 4773-4805 ST.LOUIS		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/08/09	Start Test Time	08:05:00
Final Test Date	2015/08/09	Final Test Time	21:00:00
		Well Fluid Type	01 Oil
Gauge Name	5448		
Gauge Serial Number			

Test Results

Remarks RECOVERED:
1299' GIP (1220'DP,79' DC)
253' GO 4% GAS, 96% OIL (253' DC)
288' WMGO 15% GAS, 66% OIL, 4% WTR, 15% MUD (288'DC)
541' TOTAL FLUID

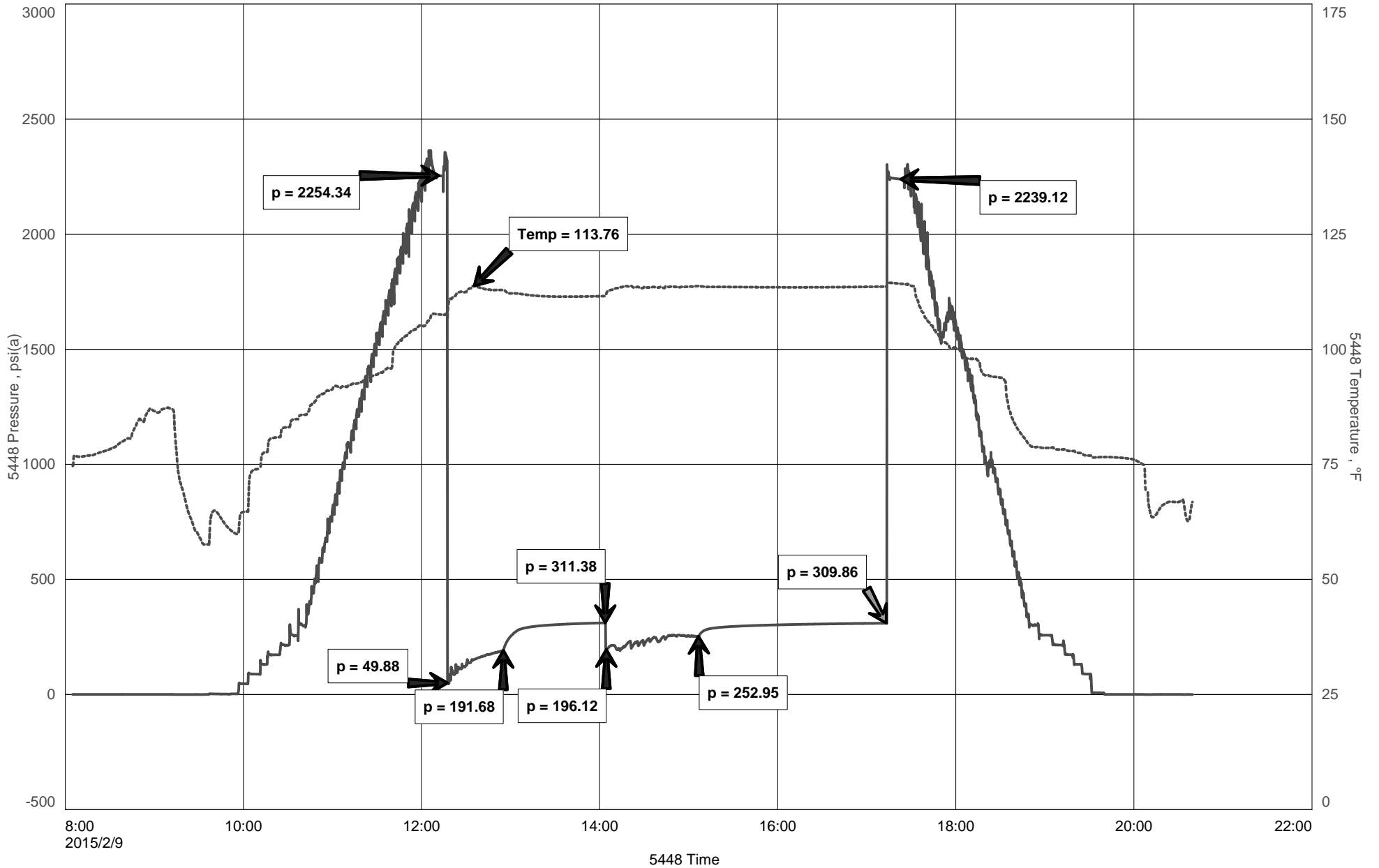
GRAVITY: 29.4 @ 60 DEG

TOOL SAMPLE: MOSTLY GAS & SOME MUDDY OIL

BEREXCO LLC
DST#4 4773-4805 ST.LOUIS
Start Test Date: 2015/08/09
Final Test Date: 2015/08/09

WALKER #10-20
Formation: DST#4 4773-4805 ST.LOUIS
Pool: WILDCAT
Job Number: M751

WALKER #10-20





GEOLOGIST'S REPORT

DRILLING TIME & SAMPLE LOG

COMPANY Berexco LLC
 LEASE Walker NO. 10-20
 LOCATION B34' FSL + 1479' FEL
 SEC. 20 TWP. 23S RNG. 32W
 COUNTY Finney STATE Kansas
 FIELD Congdon North

ELEVATIONS
 KB 2862
 DF 2860
 GL 2850
 MEASUREMENTS ARE ALL FROM KB

CONTRACTOR Berexco Drilg. Rig # 1
 COMM. 1-27-2015 COMP. 2-11-2015
 RTD 4970 LTD 4964

CASING RECORD
8 5/8" OF 1756' W/ SX.
 OF W/ SX.
 OF W/ SX.
 OF W/ SX.

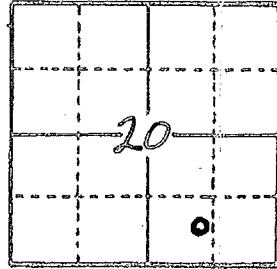
No. of DST'S Four No. of CORES None

EL. LOG A.C. RES. SP. GR
Den. Neut. GR. Caliper
M.L. Sonic

SAMPLES SAVED FROM 3600 TO TD
 DRILLING TIME KEPT FROM 3600 TO TD
 SAMPLES EXAMINED FROM 3600 TO TD
 GEOLOGICAL SUPERVISION FROM 3600 TO TD
 GEOLOGIST ON WELL Edwin H. Grieves

FORMATION TOPS

FORMATION TOPS	SAMPLE	LOG	SURSEA
<u>Base Heebner</u>	<u>3832</u>	<u>3830</u>	<u>- 968</u>
<u>Toronto</u>	<u>3842</u>	<u>3842</u>	<u>- 980</u>
<u>Lansing Fm</u>	<u>3868</u>	<u>3869</u>	<u>- 1007</u>
<u>Kansas City Fm</u>	<u>4237</u>	<u>4232</u>	<u>- 1370</u>
<u>BKC</u>	<u>4358</u>	<u>4366</u>	<u>- 1504</u>
<u>Marathon</u>	<u>4379</u>	<u>4388</u>	<u>- 1526</u>
<u>Pawnee</u>	<u>4467</u>	<u>4464</u>	<u>- 1602</u>
<u>Ft. Scott</u>	<u>4500</u>	<u>4496</u>	<u>- 1634</u>
<u>Cherokee Fm.</u>	<u>4520</u>	<u>4515</u>	<u>- 1653</u>
<u>Morrow Fm.</u>	<u>4691</u>	<u>4684</u>	<u>- 1822</u>
<u>St. Louis</u>	<u>4786</u>	<u>4777</u>	<u>- 1915</u>
<u>TD</u>	<u>4970</u>	<u>4964</u>	<u> </u>



API# 15-055-22379

REMARKS Earth-Tech 1-888-543-8378 had an unmanned gas detection trailer on this well from 3600 feet to total depth.

Edwin H. Grieves
Geologist
151 W. 1st St.
Lawrence, KS 66044

LITHOLOGY

- SANDSTONE
- LIMESTONE
- SHALE
- CONCRETE
- SILTSTONE
- DOLOMITE
- GRANITE MASH
- CLAY & GYP

CHROMATOGRAPH

- C1 = METHANE
- C2 = ETHANE
- C3 = PROPANE
- C4 = BUTANE
- C5 = PENTANE
- C6 = HEXANE

HOT WIRE BY TOTAL GAS VOLUME

SAMPLE DESCRIPTION

DRILL TIME SCALE

GAS SCALE

SHALE
DRI
DRI

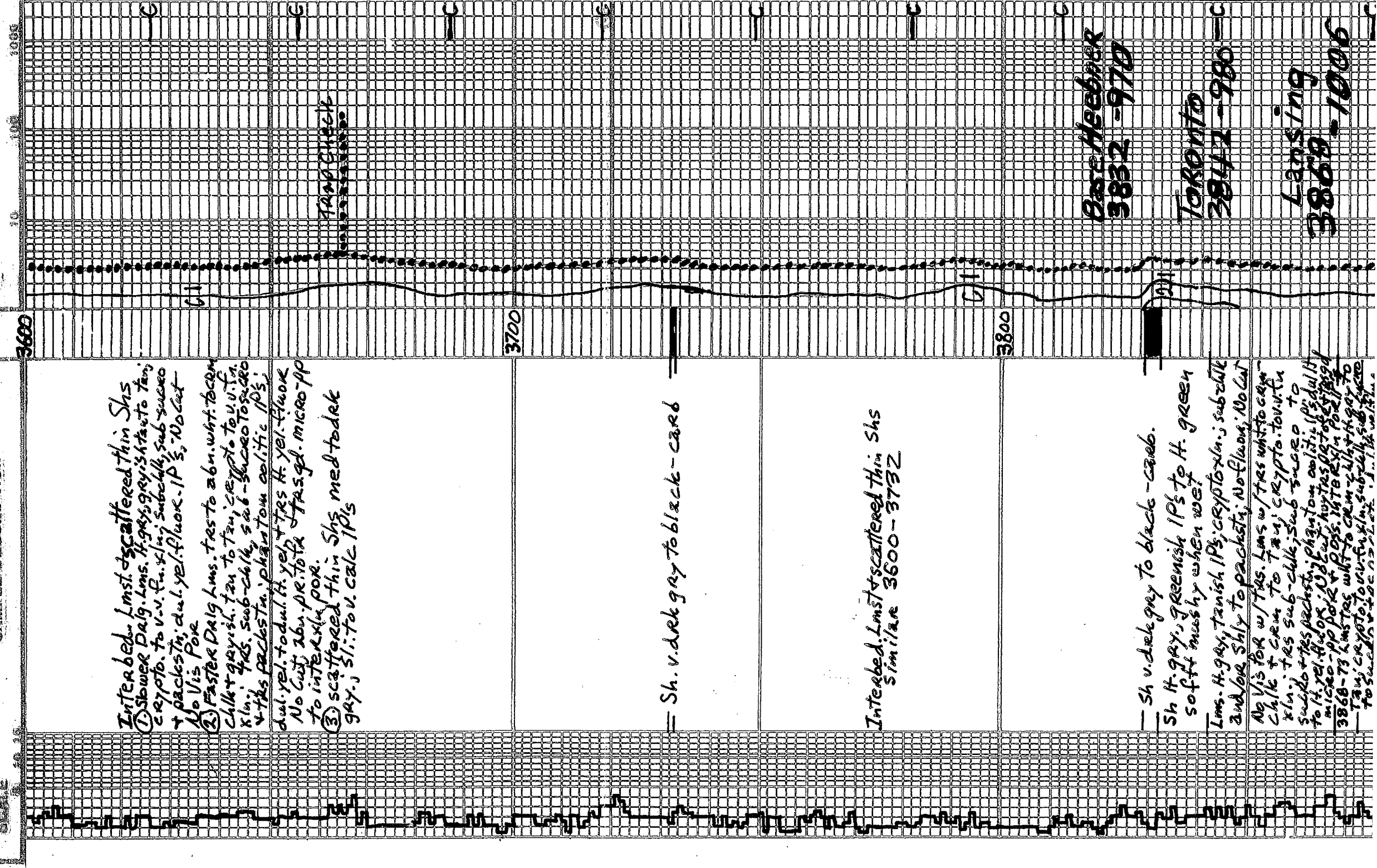
GRANITE MASH TOTAL GAS VOLUME
LANT & EXP

SCALE
= 100 cc
= 10 cc
= 1 cc

DRI TIME
SCALE

SAMPLE DESCRIPTION

GAS SCALE



Interbed. Lms + scattered thin Shs
 ① slower Dalg. Lms. H. gray, grayish to tan; crypto. to v.v. fm. xln; subbed, sub-succo + patches; dul. yel. fluor. IP 5; No cut No Vis. For
 ② Faster Dalg Lms. trs to abn. wht. to cen. chlk + grayish. tan to tan; crypto to v.v. fm. xln; trs. sub-chlk, sub-succo to succo + the patches; phantom colitic IP 5; dul. yel. to dul. h. yel. + trs. H. yel. fluor. No cut; abn. pr. to a trs. qd. micro-pp to inter xln por.
 ③ scattered thin Shs med to drk gray; sl. to v. calc. IP 5

Sh. v. drk gray to black - carb

Interbed. Lms + scattered thin Shs
Similar 3600-3732

Sh v. drk gray to black - carb.

Sh H. gray, greenish IP 5 to H. green soft mass by when wet

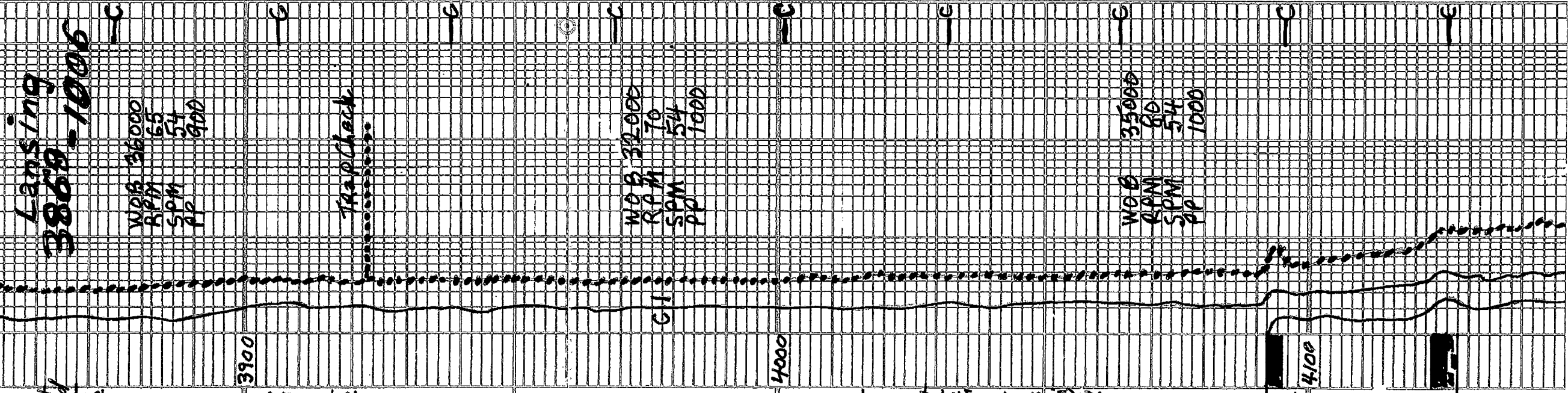
Lms. H. gray, tanish IP 5; crypto xln; subbed and/or shly to patches; no flow; No cut No Vis for w/ trs. Lms w/ trs wht to cen. chlk + cen to tan; crypto. to v.v. fm. xln. trs sub-chlk; sub-succo to succo + trs patches; phantom colitic IP 5; dul. h. to H. rel. fluor. No cut; hor. trs to v. drk + med micro-pp por + ops. H. to xln por. 3868-73 Lms trs wht to cen. xln + H. gray to tan; crypto to v.v. fm. xln; subbed; sub-succo to succo + trs. H. to v. drk.

Base Heebner
3832-970

Toronto
3842-980

Lansing
3868-1006

TRAP CHECK



over 1000 w/ 100. 6ms w/ 1.53 rpm. to over
 chalk & cream to tan; crypto. to white
 xln. 1.5 sub-chk; sub-sacro to
 subdo & res packstn; phantom oolitic; id. l. h
 to H. vel. 400s; 2000 w/ 1.53 rpm. to over
 micro-pp. 500s; 1000 w/ 1.53 rpm. to over
 3860-73 2ms. w/ 1.53 rpm. to over
 tan; crypto. to white; sub-chk; sub-sacro
 to subdo & res packstn; phantom oolitic; id. l. h
 100s; 100s. P.P. to 1.53 rpm. to over
 in teeth. P.P. 1.53 rpm.

3873-4016 Interbed. Lmst.

① Lms. 2bn. w/tes to huytes w/ht to crrk
 Chk & greyish tan to tan; crypto to w/ht
 xln; sub-chk; sub-sacro. to sacro &
 packstn. & tes sub-1.53 rpm; phantom
 oolitic. lps. d.w. H. to H. vel. 400s; No cut
 scattered. tes. v. poor micro-pp. Por

② Lms. H. grey grading to tan; crypto to
 to v.v. fine. sub-chk; sub-sacro
 & packstn; tes phantom oolitic; id. l. h
 d.w. vel. fluore. lps; No cut; No vis. Por

G1

WOB 38000
 RPM 70
 SPM 54
 PP 1000

4000

4016-4092 Interbed. Lmst. w/tes Cheat
 ① Faster Dalg. Lms. extre. 2bn. whit to cent
 chalk & H. grey. grading to tan; crypto. to w/ht
 xln; sub-chk; sub-sacro. to sacro;
 tes. phantom. oolitic; d.w. H. vel. to tes H. vel.
 fluore; No cut; huytes. P.P. to sl. tes. & P.
 micro-pp. Poor & poss. interbed. lps.

② Slower Dalg Lms. H. grey. grading to tan
 crypto. to v.v. fine. xln; tes. sub-sacro.
 packstn. & tes. sub-1.53 rpm; id. l. h. vel.
 fluora. lps; No cut; No vis. Por

③ tes cheat grays - opaque

WOB 35000
 RPM 80
 SPM 54
 PP 1000

4092-4128 Interbed Lmst. w/ Cheat
 Similar 4016-4092 w/ scattered
 thin sh. v. drk. grey. to black-cab.

4100

4128-4156 Interbed. Lmst. w/ Cheat
 Similar 4016-4092

4128-4156 Interbed. lms. w/ chert
similar 4016-4092

Lms similar 4168-4210

Lms similar #2 Description 4016-92

Lms trs. to hv. trs. wht. to cream-chalk
grayish. tan to tan; crypto. to v. v. fn.
xln. v. to ext. oolitic. por
sl. to v. oolitic; matrix sub-sucro.
to sl. trs. sucro. + packstn; dul. yel
fluor; No cut abn. gd. to ex. oolitic
oolitic por.; v. Quest. perm.

4210-4221 Lms similar 4168-4210
w/ less oolitic + more oolitic

4221-4233 Lms. H. gray. to tan; crypto. to
v. v. fn. xln.; sub-sucro. packstn + trs
No vis. fluor. dul. yel. fluor. sps; No cut

Sh. v. drk gray. to black-carb

Lms similar 4221-4233
4247-4250 Lms. hv. trs to abn wht to
CRM. chalk + H. gray. to tan; crypto. to v. v. fn.
v. to ext. oolitic transition; v. oolitic; matrix
sub-sucro. to trs. sucro. + packstn; dul. yel. fluor.
to gd. v. yel. fluor. No cut; ext. abn.
trs. gd. to ex. oolitic; por.; v. Quest. perm
4250-4271 Lms. H. to med. gray; crypto
to v. v. fn. xln.; trs. sub-chalk sub-sucro
packstn. to sub-lithog r.; dul. yel. fluor
No cut; No vis. por.

Sh. v. drk. gray. to black-carb.

4274-4312 Lms similar 4250-4271
w/ trs. to abn. wht. to CRM. - chalk IP's
and scattered trs. Chert gray. opp.

Sh. v. drk. gray. to black-carb.

4312-4358 Lms. H. gray. grading to tan;
crypto. to v. v. fn. xln.; trs. sub-chalk
sub-sucro. packstn. to sub-lithog r
scattered trs. sl. oolitic; dul. yel.
fluor.; No cut; trs. poor oolitic
v. v. Quest. perm.

4358-4379 Lms. H. to med. gray. -
v. shly. IP's grading to calc. sh. + sh. s
med. to drk. gray. - greenish IP's
crypto. xln.; sub-chalk; por. shly to
packstn.; No cut; No vis. por

4379-4426 Lms. w/ scattered trs.
wht. to CRM. - chalk + H. gray. grading to
tan; crypto. to v. v. fn. xln.; sub-chalk;
sub-sucro. + packstn. sl. to poor oolitic
IP's; (tan + r.) dul. yel. fluor. No cut

No. vis porosity

4426-4429 Lms. tan. to drk. tan.

Kansas City
4237-1275

BLK SL 170

BLK SL 174

154

184

BLK

4358-1496

Marmaton

4379-1517

G21

G21

G21

G21

4200

4300

4400

4426-4429 Lms. tan to dark tan to H. ben from spid. to even oil str. v. fn. xln w/ reixed crypto xln globs → Phanton oolitic lps; sub-sucro to v. sucro. i. d. w/ g/d. w. to g/d. w. yel. flux w/ flush to gd. Str. many. cuts 2 bn. pr. to. gd. to fids. excel. microp to inter. xln. por.

4429-4465 Lmst. similar 4376-4426

Sh. v. drk gray to black - carb. 4467-73 Lmst. similar 4376-4426 4473-4480 Lms. white to cream - chalk crypto. xln; chalk to sub-chalk; yel. flux. No cut; No Vis por w/ H. tan crypto. v. v. fn. xln; oolitic; matrix sub-chalk sub-sucro; i. d. w. yel. flux. No cut; No Vis por

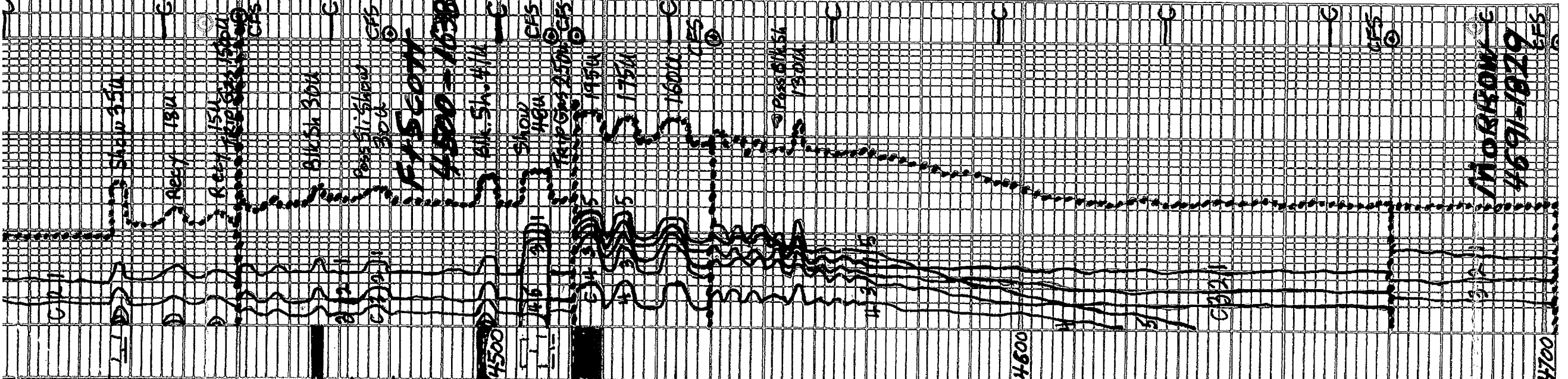
Sh. v. drk gray to black - carb. Lms. tan to dark tan to gray to black to v. drk tan to yel. flux. No cut; No Vis por.

A 4505-4511 Lms. tan to black - chalk & tan, grayish lps w/ drk tan to H. ben. even to pt. oil str. faint oil odor; oolitic por sli. oolitic. lps; matrix. tan sub-chalk sub-sucro to v. sucro. & tan pacch. str. & v. g/d. w. yel. flux. No cut; No Vis por. B 4511-4515 Lms. similar 4500-4505 C 4515-20 Sh. v. drk gray to black carb. D 4520-4534 Lms. grayish tan to tan; crypto. to v. v. fn. xln. sub-chalk, sub-sucro & pacch. str. tan oolitic - mostly gray / tan tan; v. drk. yel. flux. No cut; No Vis por

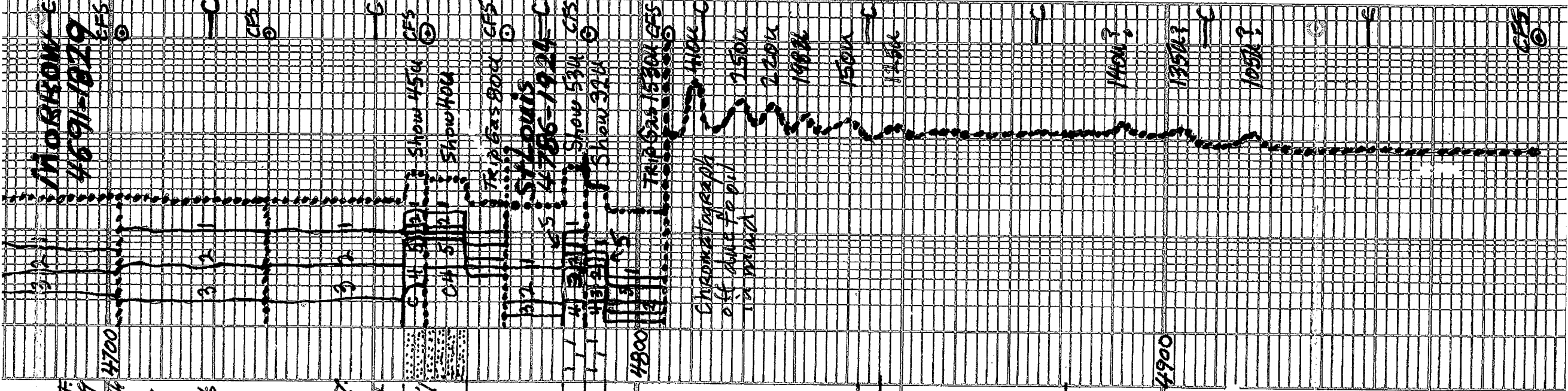
4534-4691 Interbed. Lmsts & Shs

1 Lms. H. to med. gray - sli. to v. Shly; crypto. xln; sub-chalky to v. Shly; pacch. str. & sub-lithog. R; No flux. No cut; No Vis por. 2 Lms. grayish. tan to tan; crypto. to v. v. fn. xln. sub-sucro. pacch. str. & sub-lithog. R; scattered. fids. Phanton oolitic. d. w. H. yel. flux. No cut; No Vis por. 3 Lms. Chert gray - opaque 4 Sh. med to v. drk gray - calc. lps 5 Sh. v. drk. gray. to black carb - looking

4691-4756 Interbed. Shs. At. Sl. Siltstns & Lmst 1 Lms. H. to med. gray - sli. to v. Shly; tan to calc. Shs & grayish tan drk tan to H. ben; crypto to v. v. fn. xln; sub-chalk



MORRISON C
4691-1979
CFS



4751-4756 Interbed. Sh. Qtz. Silt. sh. & Lms. sh.
 ① Lms. H. to med. gray - sli. to ext. silty sh. to gray
 to calc. Shs. & gray sh. to tan. sh. to
 H. brown. CR. to v. v. tan. silty. sub-blek
 to sh. sh. sub-succro. packst. to tan
 sub-lith. gray. d. w. yel. to tan. yel. fluore.
 No cut. No Vis for

② Sh. med to v. dk gray - sli. to ext. silty
 calc. lms. and ore sli. to ext. silty. lps
 ③ Silt. sh. H. to med. gray, mostly sh.
 filled & sli. tan. brown. from oil stain
 d. w. gl. to gl. d. w. yel. fluore w/ flash
 to gl. sh. running. Cuts No Vis for
 Prob. laminations to v. thin beds

④ Shows all in top 30 feet of zone
 v. yellow. Qtz. subst. H. gray to white. gray
 clay filled with lps. to sep. sli. to
 Zn. brown. from oil stain. v. tan. gray. to
 filled. d. w. gl. to gl. d. w. yel. fluore w/ cut.

4756-68 Qtz. subst. H. gray. to abn. H. tan. from oil
 sh. v. tan. to tan. gray. to sub-zung. lps. &
 lps. & silt. to abn. sli. to ext. silty. w/ fine
 dissemin. in. to d. w. yel. fluore. yel. fluore.
 matrix. d. w. gl. to gl. d. w. yel. fluore.
 w/ flash to gl. d. w. yel. fluore. to abn. pr
 to be. sh. to gl. d. w. yel. fluore. to abn. pr
 poly. exte. abn. of sm. clusters and
 lps. of Qtz. grs.

F 4768-4786 Interbed. of sep. gradational
 sh. lms. & Qtz. sh. to
 silty lps. to sep. gradational

⑤ Sh. med to dk gray. to sli. to ext. silty
 silty lps. to sep. gradational
 2. Lms. similar. #1 description 4691-4786
 3. Lamination. tan. v. thin beds. ore
 sh. w/ brown. oil stain. fluore. to tan.
 v. sil. to v. tan. pr. micro. to tan. pr.
 to tan. pr. fluore.

F 4786-4790 Lms. h. v. tan. wh. to cream
 chalk w/ sub. chalk. oil stain. lps. & H. gray to tan
 w/ flash to even brown. sh. lps. to tan
 oil stain. v. to ext. silty. (med. to tan)
 sub-chalk & tan. packs. to tan. tan. tan.
 dissemin. to tan. lps. d. w. gl. to gl. d. w. yel.
 yel. fluore. w/ flash to ext. silty. sh. to
 cuts. abn. Ex. Ad. to ext. micro. to
 to interbed. of sep. gradational. to tan. pr.

I oolites. v. abn. chert. tan. to orange
 opaque. to tan. sh.
 G. Lms. similar. to 4786-90 of tan. in
 chalk w/ chalk. oolites. matrix. tan.
 chalk to tan. sub-chalk. tan. to tan.
 sh. fluore. & cut. por. pr. to tan.
 tan. med. micro. to tan. pr. to tan.
 abn. loose oolites. w/ h. v. tan. sh. to
 gray. tan. to sli. tan. ore. to tan. pr. to

J H. 4794-4842 Lms. tan. wh. to cream
 chalk w/ chalk. oolites. lps. & tan.
 grayish. lps. CR. yel. to v. tan. sh. in
 v. to ext. silty. to tan. (sum. med. to tan)
 matrix. sub-chalk. sub-chalk. sub-chalk.

K T. packst. d. w. H. to H. yel. fluore
 No cut. No Vis for. w/ flash. tan. gray.
 In. tan. Dol. to Dol. tan. H. gray. CR. yel.
 to v. tan. sh. sub-succro. packst. to tan.
 d. w. yel. fluore. No cut. No Vis for
 J. 4846-4881 Lms. tan. sh. to tan.
 dol. CR. yel. to v. tan. sh. tan.
 grayish. lps. packst. to sub-lith. gray
 w/ flash. sub-succro. v. tan. yel.
 fluore. No cut. No Vis for

L 4881-4970 Lms. abn. sli. to tan. exte.
 dol. lps. tan. grayish. lps. CR. yel.
 to v. tan. sh. packst. to sub-lith. gray
 w/ flash. lps. sub-chalk & sub-succro.
 v. tan. yel. fluore. No cut. No Vis for

TD 4970
 7/8 inch Bit-Info:
 #1 G. 2. 4. 1. E. U. 7. 7. 1. D. C.

TD 4970

7 7/8 inch Bit-Info:
#1 Smith FH 23 VVPS
In 1756 out 4970 TD
Circ. Points

- 1. 4251 6. 4540 11. 4775
- 2. 4450 7. 4570 12. 4790
- 3. 4480 8. 4700 13. 4805
- 4. 4570 9. 4730 14. 4970 TD
- 5. 4515 10. 4760

Dev. Surveys:
1. 508 7/4 5. 4450 3/4
2. 1158 7/4 6. 4775 1/2
3. 1156 MR? 7. 4970 1/2 TD
4. 205 3 1/4

Daily Daily Progress:

- 1. 3600 2-2-15
- 2. 4001 2-3-15
- 3. 4440 2-4-15
- 4. 4450 2-5-15
- 5. 4515 2-6-15
- 6. 4630 2-7-15
- 7. 4775 2-8-15
- 8. 4805 2-9-15
- 9. 4854 2-10-15
- 10. 4970 2-11-15

DST #1 Maximator 4419-4450
1st sp 558 808 17min No BB
2nd sp 558 Built to 9 inches No BB
Rec 135 ft Total fluid + 485 GIP
5' Clean oil 100% oil
130' HOCM 40% oil 60% Mud
Gravity 29.5 @ 60° Max Temp 110°F
Tool Sample 80% oil 20% Mud
IHP 2199# FFP 48-62 in 60 min
I/SIP 20-42# in 30 min F/SIP 226# in 120 min
I/SIP 276# in 60 min FHP 2178

DST #2 Ft Scott 4495-4515
1st sp 558 Built to 5 1/2" No BB
FD 558 Built to 9"
Rec 332' Total Fluid 758 GIP
87' Clean oil 100% oil
177 OCGWM 20% G 45% oil 82% W 28% Mud
66 WOCUM 26% G 26% oil 80% W 30% Mud
chl 3200 ppm ATTEN 25% Oppm Next 1197#
Rw .27 @ 70° F pH 7.0
Tool sample 2868 80.80% W 4.02% Mud
IHP 2057# FFP 62-102 in 60 min
I/SIP 594# in 60 min FHP 2011

DST #3 MORROW SD 4758-4775
1st sp 558 Built to 1 1/8" No BB
FD No BB
Rec 45' Total Fluid Max Temp 114°F
45' GWM 2.8 G 46% W 52% Mud
chl 3200 ppm ATTEN 25% Oppm
Rw .30 @ 72° pH 7.0
Tool sample 2868 43% W 55% Mud
IHP 2114# FFP 34-45 in 30 min
I/SIP 12-29# in 30 min F/SIP 524# in 120 min
I/SIP 530# in 60 min FHP 2207

DST #4 St Louis 4773-4805
1st sp 558 808 7 1/2 min 8" BB
FD 558 808 7 min
Rec 541' Total Fluid 1299 GIP
253' GO 4% Gas 96% Oil
288' WMO 15% G 66% W 42% W 15% M
Grav 29.4 @ 60°
Tool Sample Mostly Gas + Some Muddy Oil
IHP 2254# FFP 196-253 in 60 min
I/SIP 50-192# in 30 min F/SIP 310# in 120 min
I/SIP 311# in 60 min FHP 2239# in 120 min

Tool Sample 2868 8080 W 4/02 Min
 IHP 20.57* FFP 62-103 in 60 min
 IFP 15-54 in 30 min FSP 600* in 120 min
 ISIP 594 in 60 min FHP 2011

 DST #3 MORROW Sd 4758-4775
 IO WSB Built To 1 1/8" No BB
 FO No BB
 Rec 45' Total Fluid Mar 10 1140 F
 45' GWM 28G-468 W-528 Mud
 Schl 3200 ppm Fitch 12000 ppm
 Rv - 30 @ 720 pH 7.0
 Tool Sample 2868-498 W-558 Mud
 IHP 2114* FFP 34-45 in 30 min
 IFP 12-29 in 30 min FSP 524* in 120 min
 ISIP 580 in 60 min FHP 2207

DST #4 St. Louis 4773-4805
 IO SSB 808 7/2 min 8" BB
 FO SSB 808 7 min 6" BB
 Rec 54' Total Fluid 1299' GIP
 253' GO 48 Gas 968 Oil
 288' WMGD 158G-6680-42 W-158 M
 GRAV 29.4 @ 60
 Tool Sample Mostly Gas & Some Muddy Oil
 IHP 2252* FFP 196253* in 60 min
 IFP 50-192 in 30 min FSP 310* in 120 min
 ISIP 311* in 60 min FHP 2239* in 120 min

Mud Info:

Date	1-2 10:45A	2-3 11:00P	2-4 11:00P	2-5 11:20P	2-6 7:15A	2-7 8:00A	2-8 8:10A	2-9 9:00A	2-10 12:16P
Depth	3471	4138	4450	4450	4515	4617	4775	4805	4928
Wt.	8.6	9.25	9.35	9.4	9.2	9.1	9.2	9.2	9.25
Vis	60	45	50	49	64	49	52	52	57
PV	18	13	15	17	18	15	16	17	16
YP	20	13	16	17	22	17	18	19	16
GS	15/47	17/29	15/44	16/39	15/45	13/35	14/29	15/24	17/45
WL	9.6	8.4	7.6	6.8	6.4	7.1	7.2	7.2	8.2
Cake	1/32	1/32	1/32	1/32	1/32	1/32	1/32	1/32	1/32
pH	11.0	11.0	10.5	9.5	9.0	10.5	10.5	10.0	9.0
Chl	100	2300	1600	2550	2400	2000	2100	2000	2100
Ca	20	20	20	20	40	20	40	40	40
LFM	0	2	4	4	4	3	3	3	2

OPERATOR **Bekexco LLC** LOCATION **834' FSL & 1479' FEL**
 LEASE **Walker** NO. **10-20** SEC **20** TWP. **23S** RMO **32W**
 ELEVATION **2862 KB** RTO **4970** COUN. **Finney** STATE **Kansas**

ALLIED OIL & GAS SERVICES, LLC 064652

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT

Oakley

DATE <i>2-11-15</i>	SEC <i>20</i>	TWP. <i>23</i>	RANGE <i>32</i>	CALLED OUT	ON LOCATION <i>2:30 pm</i>	JOB START <i>12:00 am</i>	JOB FINISH <i>2:00 am</i>
LEASE <i>Walker</i>	WELL # <i>10-20</i>		LOCATION <i>Garden City 2nd (Lower Rd)</i>		COUNTY <i>Trinity</i>	STATE <i>TX</i>	
OLD OR NEW (Circle one)			<i>1 1/2 g. units</i>				

CONTRACTOR *Barexco 1*

TYPE OF JOB *Production 2-stage*

HOLE SIZE *7 7/8* T.D. *4970*

CASING SIZE *5 1/2* DEPTH *4869.57*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT *43.46*

CEMENT LEFT IN CSG. *43.90*

PERFS.

DISPLACEMENT *117.50*

OWNER *Sama*

CEMENT

AMOUNT ORDERED *178 2 1/2 ASC 20% salt*

279 6 1/2 lbomite 3% FRC 1.15% Defoamer

480 5/8 Lite Vq # 520-500

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@	<i>23.50</i>	
ASC	@	<i>178 5/8</i>	<i>9153.00</i>
<i>PLW</i>	@	<i>480 5/8</i>	<i>9542.40</i>
<i>EL 160</i>	@	<i>81 #</i>	<i>18.70</i>
<i>Defoamer</i>	@	<i>43 #</i>	<i>3.50</i>
<i>Flansol</i>	@	<i>121 #</i>	<i>2.97</i>
<i>Kolsol</i>	@	<i>1020 #</i>	<i>1.98</i>
<i>Material</i>	@		<i>16725.71</i>
<i>(7544.39/45%)</i>	@		
HANDLING	@	<i>786.86</i>	<i>2.48</i>
MILEAGE	@	<i>955.70</i>	<i>2.75</i>
			TOTAL

EQUIPMENT

PUMP TRUCK CEMENTER *Lakene G. White*

431 HELPER *Wayne Marshall*

BULK TRUCK *Wayne Marshall*

891/310 DRIVER *Wayne Marshall*

BULK TRUCK

818/257 DRIVER *Darrian Racette*

SERVICE

DEPTH OF JOB *4965.57*

PUMP TRUCK CHARGE *2765.75*

EXTRA FOOTAGE @ *2406.25*

MILEAGE *MT FD 30* @ *2.70* *231.00*

MANIFOLD *MT FD 30* @ *275.00* *8250*

MT FD 30 @ *4.00* *1200*

MT FD 30 @ *4.00* *1200*

TOTAL *10,040.73*

REMARKS:

plug ball thru 200 #

mix 135 5/8 Lite, mix 120 5/8 ASC

Displace with water + mud, Land pump

1800 # float held open DOTool 400 #

Core 4 hrs. Plug w/ 1.55% Plug R.H. 30 #

mix 300 5/8 Lite, mix 5 8 5/8 ASC

Displace with water, Land pump 2150 #

float held. Cement did circulate

Thank you

CHARGE TO: *Barexco*

STREET _____

CITY _____ STATE _____ ZIP _____

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 TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME *Culbert Davila Jr*

SIGNATURE *[Signature]*

PLUG & FLOAT EQUIPMENT

<i>DOTool</i>		<i>5335.00</i>
<i>AFU Float Plug</i>	@	<i>690.00</i>
<i>Level down plug</i>	@	<i>650.00</i>
<i>(1) Central line</i>	@	<i>57.00</i>
<i>(2) Basket</i>	@	<i>395.00</i>
		TOTAL <i>8,052.00</i>

SALES TAX (if Any) _____

TOTAL CHARGES *34,858.50*

DISCOUNT *15,686.32 (45%)* IF PAID IN 30 DAYS

19,172.17 Net.

Bred.



1-316-681-4734

CEMENTING LOG

STAGE NO.

Date 2-11-15 District OK Kings Ticket No. 64652
 Company Berecoco Rig Berecoco 1
 Lease Walker Well No. 10-20
 County Fairfax State OK
 Location 20-23-32 Field 12E Units
Garden City 2N(Lower Rd)

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 5 1/2 Type non Weight 15.50 Collar Top stage

Casing Depths: Top 10' 1/2 Bottom 3200'

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 7 7/8 T.O. 4700 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0238 Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: _____
 Amt. 5.661 Skys Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type Vertical Excess _____
 Amt. 345 Skys Yield 1.97 ft³/sk Density 12.42 PPG

TAIL: Pump Time _____ hrs. Type ASC 100 Excess _____
 Amt. 58 Skys Yield 1.39 ft³/sk Density 14.48 PPG

WATER: Lead 5.661 gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used 431- Wayne
 Bulk Equip. 291910- Wayne
818/287- Darton

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type Water Amt. 26.16 Bbls. Weight _____ PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE _____

CEMENTER Lafane

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
1:00				5.0		Hold safety meeting Start water spacer Plug M.H. 155B Plug P.H. 305B Start cement 300 SKS Lite Weight cement 12.4 # Start cement 58 SKS ASC Weight cement 19.3 # Stop cement Release plug Wash up pump lines to pig Start water displacement
				10.0))))))
				10.0		
				10.0		
				10.0		
				10.0		
				10.0		
				6.16		
2:00						Stop water Load plug float hold Cement did circulate

Thank you

Hold safety meeting

[Signature]



CEMENTING LOG

STAGE NO.

Date: 2-11-15 District: Dakota, 19 Ticket No. 64652
 Company: Beraco Rig: Beraco 1
 Lease: Walker Well No. 10-20
 County: Finney State: KS
 Location: 20-23-32 Field: _____
Cardon City 2W (Loward) 142E, NW

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size: 5 1/2 Type: steel Weight: 15.5# Collar: _____
Bottom stage

Casing Depths: Top K.B Bottom 1963.57

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 9 7/8 T.D. 1770 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 0.238 Lin. ft./Bbl. _____
 Open Hole: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: _____
 Amt. _____ Sls Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type Lite 104# Excess _____
 Amt. 135 Sls Yield 1.97 ft³/sk Density 12.92 PPG
 TAIL: Pump Time _____ hrs. Type ASC 102.5# Excess _____
2 bags of 6# gypsum
 Amt. 120 Sls Yield 1.59 ft³/sk Density 14.48 PPG
 WATER: Lead 5661 gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used 431- Wayne
 Bulk Equip. 871/910 - Wayne
818/287 - Darton

Float Equip: Manufacturer Weatherford
 Shoe: Type AFU Depth _____
 Float: Type leaf down plug Depth _____
 Centralizers: Quantity 11 Plug Top _____ Btm. _____
 Stage Collars DU tool
 Special Equip. 2 baskets
 Disp. Fluid Type water/mud Amt. 117.15 Bbls. Weight _____ PPG
 Mud Type Y1/76.13 Weight _____ PPG

COMPANY REPRESENTATIVE _____

CEMENTER Lakane

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
12:00						Hold safety meeting - Pump ball through w/ rig pump. Give hr. Pump water spacer Start cement 135 sls Lite weigh cement 12.4# start cement 120 sls ASC weigh cement 14.5# stop cement Release plug Wash up pump & lines to pit. start water displacement stop water. start mud displacement
				5.0		
				20		
				20		
				20		
				10		
				10		
				10		
				10		
				10		
				2.15		
						Stop head Land plug float held Open DU tool Give 4 hrs.
1:00						