

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1206205

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

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: _____

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

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Name	Top	Datum
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:					

<div style="text-align: center;"> CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used </div> <div style="text-align: center;">Report all strings set-conductor, surface, intermediate, production, etc.</div>							
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 (Amount and Kind of Material Used)		Depth
TUBING RECORD: Size: Set At: Packer At:			Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No		
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 (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<p>DISPOSITION OF GAS:</p> <p><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease</p> <p><i>(If vented, Submit ACO-18.)</i></p>	<p>METHOD OF COMPLETION:</p> <p><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled</p> <p><i>(Submit ACO-5)</i></p> <p><input type="checkbox"/> Other <i>(Specify)</i> _____</p>	<p>PRODUCTION INTERVAL:</p> <p>_____</p> <p>_____</p>
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810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

Elite **COPY**
Cementing & Acidizing
of Kansas, LLC



Cement or Acid Field Report
Ticket No. **1114**
Foreman Russell McCoy
Camp Eureka

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
3-1-2014	1034	Walters B # 18	16	24	5	Butler	KS
Customer Range oil company INC.			Safety Meeting 2m	Unit # 102	Driver Rick L.	Unit #	Driver
Mailing Address 9412 Central P.O. Box 781775				111	Allen G.		
City Wichita		State KS	Zip Code 67218				

Job Type Surface Hole Depth 240 Slurry Vol. 32 Bbl Tubing _____
Casing Depth 235' Hole Size 12 1/4 Slurry Wt. 15 # Drill Pipe _____
Casing Size & Wt. 8 5/8 23' Cement Left in Casing 20' Water Gal/SK 6.5 Other _____
Displacement 13 1/2 Displacement PSI 100 # Bump Plug to _____ BPM 4 Bpm

Remarks: Safety meeting, Rig up to 8 5/8 casing, Break circulation w/ 10 Bbl
water, mix 130 SK's Reg cement w/ 3% cc 2% G-1 1/4 # Floccle per/sk
shot down, release 8 5/8 wooden plug Displace w/ 13 1/2 Bbl fresh water.

Thank you Daniel McCoy

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C-101	1	Pump Charge	840.00	840.00
C-107	20	Mileage	3.95	79.00
C-200	130	SK's Regular: class A cement	15.00	1950.00
C-205	360 #	# cement = 3%	.60	216.00
C-206	250 #	# G-1 = 2%	.20	50.00
C-209	30 #	Floccle 1/4 # per/sk	2.25	67.50
C-103 A	6.1	Tow mileage	m/c	345.00
C-506	2	8 5/8 x 12 1/4 centralizers	65.00	130.00
			Sales Tax	3831.96
Authorization <u>Dan Cox</u> Title <u>Town Planner Summit City</u> Total				3831.96

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

Elite

COPY

**Cementing & Acidizing
of Kansas, LLC**



Cement or Acid Field Report

Ticket No. **1147**

Foreman KEVIN MCCOY

Camp EUREKA

API # 15-015-24013

Date	Cust. ID #	Lease & Well Number		Section	Township	Range	County	State
3-10-14	1034	WALTERS B #18		16	24S	5E	Butler	Ks
Customer RANGE OIL Company, INC. Mailing Address P.O. Box 781775 City Wichita			Safety Meeting KM SF RM RG	Unit #	Driver	Unit #	Driver	
				102	SHANNON F.			
				110	RUDY M.			
				141	ALLEN G.			
State Ks		Zip Code 67278						

Job Type Longstring Hole Depth 2594' K.B. Slurry Vol. 41 BBL Tubing _____
Casing Depth 2585.25' G.L. Hole Size 7 7/8" Slurry Wt. 13.7 # Drill Pipe _____
Casing Size & Wt. 5 1/2" 14 # Cement Left in Casing 6.85' Water Gal/SK 9.0 Other _____
Displacement 63.6 BBL Displacement PSI 700 Bump Plug to 1100 PSI BPM _____

Remarks: SAFETY Meeting: Rig up to 5 1/2 casing. BREAK CIRCULATION w/ 5 BBL FRESH WATER. Pump 12 BBL Metasilicate PRE Flush, 5 BBL WATER SPACER. MIXED 125 SKS THICK SET CEMENT w/ 5 # KOL-SEAL/SK @ 13.7 #/GAL, YIELD 1.85 = 41 BBL SLURRY. WASH OUT PUMP & LINES. SHUT DOWN. RELEASE LATCH DOWN PLUG. DISPLACE PLUG TO SEAT w/ 63.6 BBL FRESH WATER. FINAL PUMPING PRESSURE 700 PSI. BUMP PLUG TO 1100 PSI. WAIT 2 MINUTES. RELEASE PRESSURE. FLOAT & PLUG HELD. GOOD CIRCULATION @ ALL TIMES WHILE CEMENTING. Job Complete. Rig down.

 **COMPLETED**

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 102	1	Pump Charge	1050.00	1050.00
C 107	20	Mileage	3.95	79.00
C 201	125 SKS	THICK SET CEMENT	19.50	2437.50
C 207	625 #	KOL-SEAL 5 #/SK	.45 #	281.25
C 216	100 #	Metasilicate PRE Flush (12 BBL)	2.00 #	200.00
C 108 A	6.87 TONS	TON Mileage	M/c	345.00
C 113	4 HRS	80 BBL VAC TRUCK	85.00	340.00
C 224	3300 gals	CITY WATER	10.00/1000	33.00
C 421	1	5 1/2 LATCH DOWN PLUG	230.00	230.00
C 703	1	5 1/2 AFU INSERT	145.00	145.00
C 504	4	5 1/2 x 7 7/8 CENTRALIZERS	48.00	192.00
THANK YOU			Sub TOTAL	5332.75
6.4%			Sales Tax	225.20
Authorization <u>John M. Walker</u> Title _____			Total	5557.95

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.



DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
WaltersB#18DST1

Page 1 of 2 Pages

Company Range Oil Company, Inc. Lease & Well No. Walters "B" No. 18
Elevation 1431 EGL Formation Mississippi "A" Effective Pay Ft. Ticket No. RR009
Date 3-9-14 Sec. 16 Twp. 24S Range 5E County Butler State Kansas
Test Approved By Ken Wallace Diamond Representative Ricky Ray

Formation Test No. 1 Interval Tested from 2,505 ft. to 2,544 ft. Total Depth 2,544 ft.
Packer Depth 2,500 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 2,505 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 2,486 ft. Recorder Number 5515 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 2,507 ft. Recorder Number 5586 Cap. 5,000 psi.
Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor Summit Drilling Company - Rig 1 Drill Collar Length 314 ft. I.D. 2 1/4 in.
Mud Type Chemical Viscosity 50 Weight Pipe Length ft. I.D. in.
Weight 9.3 Water Loss 7.8 cc. Drill Pipe Length 2,158 ft. I.D. 3 in.
Chlorides 900 P.P.M. Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 4 Anchor Length 39 ft. Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2-XH in.

Blow: 1st Open: Hit Bridge - MISRUN!

2nd Open: N/A

Recovered 2,167 ft. of mud = 16.683890 bbls. (Grind out: 100%-mud)

Recovered ft. of

Recovered ft. of

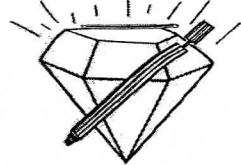
Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 100%-mud

Time Set Packer(s) Time Started off Bottom Maximum Temperature 89°
Initial Hydrostatic Pressure.....(A) 1227 P.S.I.
Initial Flow Period.....Minutes (B) P.S.I. to (C) P.S.I.
Initial Closed In Period.....Minutes (D) P.S.I.
Final Flow Period.....Minutes (E) P.S.I. to (F) P.S.I.
Final Closed In Period.....Minutes (G) P.S.I.
Final Hydrostatic Pressure.....(H) P.S.I.



DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
WaltersB#18DST2

Page 1 of 2 Pages

Company Range Oil Company, Inc. Lease & Well No. Walters "B" No. 18
Elevation 1431 EGL Formation Mississippi "A" Effective Pay Ft. Ticket No. RR010
Date 3-9-14 Sec. 16 Twp. 24S Range 5E County Butler State Kansas
Test Approved By Ken Wallace Diamond Representative Ricky Ray

Formation Test No. 2 Interval Tested from 2,505 ft. to 2,544 ft. Total Depth 2,544 ft.
Packer Depth 2,500 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 2,505 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 2,486 ft. Recorder Number 5515 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 2,507 ft. Recorder Number 5586 Cap. 5,000 psi.
Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor Summit Drilling Company - Rig 1 Drill Collar Length 314 ft I.D. 2 1/4 in.
Mud Type Chemical Viscosity 50 Weight Pipe Length ft I.D. in.
Weight 9.3 Water Loss 7.8 cc. Drill Pipe Length 2,158 ft I.D. 3 in.
Chlorides 900 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 4 Anchor Length 39 ft. Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2-XH in.

Blow: 1st Open: Weak, 1/4 in. blow. Died in 20 mins. No blow back during shut-in.

2nd Open: No blow. No build. No blow back during shut-in.

Recovered 5 ft. of mud = .024600 bbls. (Grind out: 100%-mud)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

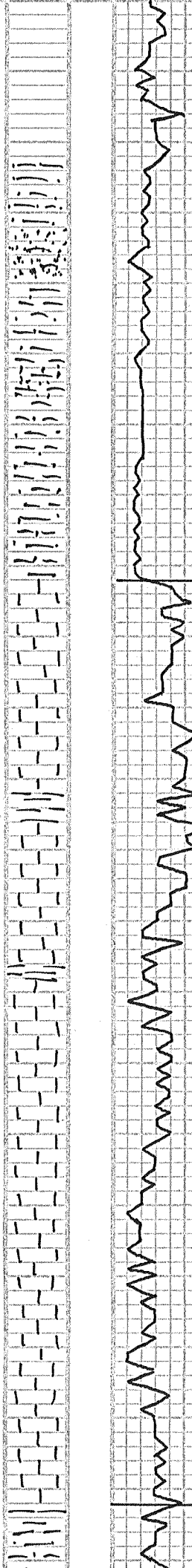
Recovered ft. of

Remarks Tool Sample Grind Out: 100%-mud

Time Set Packer(s) 9:36 P.M. Time Started off Bottom 11:36 P.M. Maximum Temperature 90°
Initial Hydrostatic Pressure.....(A) 1222 P.S.I.
Initial Flow Period.....Minutes 30 (B) 12 P.S.I. to (C) 15 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 145 P.S.I.
Final Flow Period.....Minutes 30 (E) 16 P.S.I. to (F) 18 P.S.I.
Final Closed In Period.....Minutes 30 (G) 132 P.S.I.
Final Hydrostatic Pressure.....(H) 1216 P.S.I.

End Mud: 1705'
3/06/14
Vis 42, wt. 9.2, LCM 3

1700
20
40
60
80
1800
20
40
60
80
1900
20



sh, gy, micac, slty

A.A. sm, tan, fg ss, NS

sh, gy, micac, slty

sh, gy, slty

Lansing 1782 (-345)

Ls, tan-buff, ool, sm Ca filled oolts,
sl foss, tr oolm ϕ , cky, NS, NF

Ls, tan-gy, sl ool, granl, foss, fpp+
cky, NS, NF

sh, gy

Ls, tan, sl ool, fxln, cky, NS, NF

Ls, buff-ltgy, sl ool, fxln, cky
NS, NF

Ls, ltgy-buff, sl ool, sl foss,
cky, NS, NF

Ls, tan, sm ltgy, sl ool, fxln,
cky, tr wh Δ , NS

Ls, tan, sl ool, fxln, cky, NS

AA, sl Δ ty

B/Lansing 1912 (-475)

sh, gy, micac, sl slty

40

60

80

2000

20

40

60

80

2100

20

40

A.A.

sh, gy, micac, gummy

A.A.

Kansas City 2070(-633)

Ls, buff-tan, s/ool, sl foss, fxln,
sm brown lse Ls, NS

Ls, tan, ool, foss, fxln, NS

Ls, buff, foss, s/ool, Lty,
fxln, NS.

Fud Mud: 2108'
03/07/14
vis 40, wt. 9.4, LCM 4

Ls, buff, ool, foss, slcky,
NS

60

80

2200

20

40

60

80

2300

20

40

60

Ls, lt gy, ool, foss cky, ns

sh, bl

Ls, tan-buff, ool, fxl n, v dty
NS

sh, bl

Ls, gy, fxl n-dse, NS

sh, lt grn, slty

Ls, lt brn, ool, foss, cky, NS

B/KC 2238(-801)

SS, lt grn, fgd, glauco, psrtld,
p-f rnd, NS

sh, lt grn-gy, slty

sh, dk gy, plant foss

Mormaton 2310(-873)

Ls, lt grn-gy, glauco, ool, foss,
sl cky, NS

sh, lt grn-gy

SS, lt gy, v fgd, glauco, psrtld,
f rnd, sm sand grains in ool Ls

sh, gy, lt grn

Ls brn-tan, v ool, fxl n, NS

80

2400

20

40

60

80

2500

20

40

60

80

sh, bl

sh, lt grn w/ ss, vfgd, ns

sh, gy, brn, grn

ls, tan-ltgy, fxh-dse, sl
ool, cky, ns

sh, bl

ls, brn-m brn, sl ool, fx/n-
dse, foss, ns

sh, bl

sh, gy, grn

ss, ltgy, vfgd, fsrt'd,
sl brnd, ns

sh, grn, slty

ss, ltgy-clr, fgd, psrt'd,
p-frnd, bl org matter,
hard, ca cem, ns

sh, dkgy

ls, ltgy-tan, fx/n-dse,
sl ool, ns

sh, dkgy, bl, brn

ss, ltgrn, glauca, fgd, ca
cem, psrt'd, p rnd, nssh, vc (yello, grn, red, gy),
tr lg sand grains, tr Δ, nsΔ, wh, gy 90% wea Δ w/ pat
to tr p Δ, sl odor, gd FL, SSFO
in wea Δ, 100% frsh Δ, NFO,
scat FL2544-15' 30": Δ AA, 95% w/
SSO, FL, gd odor, appx 30%
w/ SSFO in 30" sample2549-15"-70% frsh Δ w/ scat
FL, NSFO: 30% weat Δ w/
95% frsh, gd odor, gd FL
30": 80% frsh Δ w/ tr FL,
20% weat Δ, SSFO,
gd odor, gd FL2560-70: 90% frsh Δ, NFO, NS,
10% weat Δ, 50% FL,
SSFO, f odor

2570-80: 95% frsh Δ, tr FL, NS

Fud Mud: 2434'
03/08/14
vis 52, wt. 9.3, LCM 3

Cherokee 2438(-1001)

Miss Ct 2534(-1097)

Fud Mud: 2544'
03/09/14
vis 50, wt. 9.3, LCM 2

DST #1

DST #2

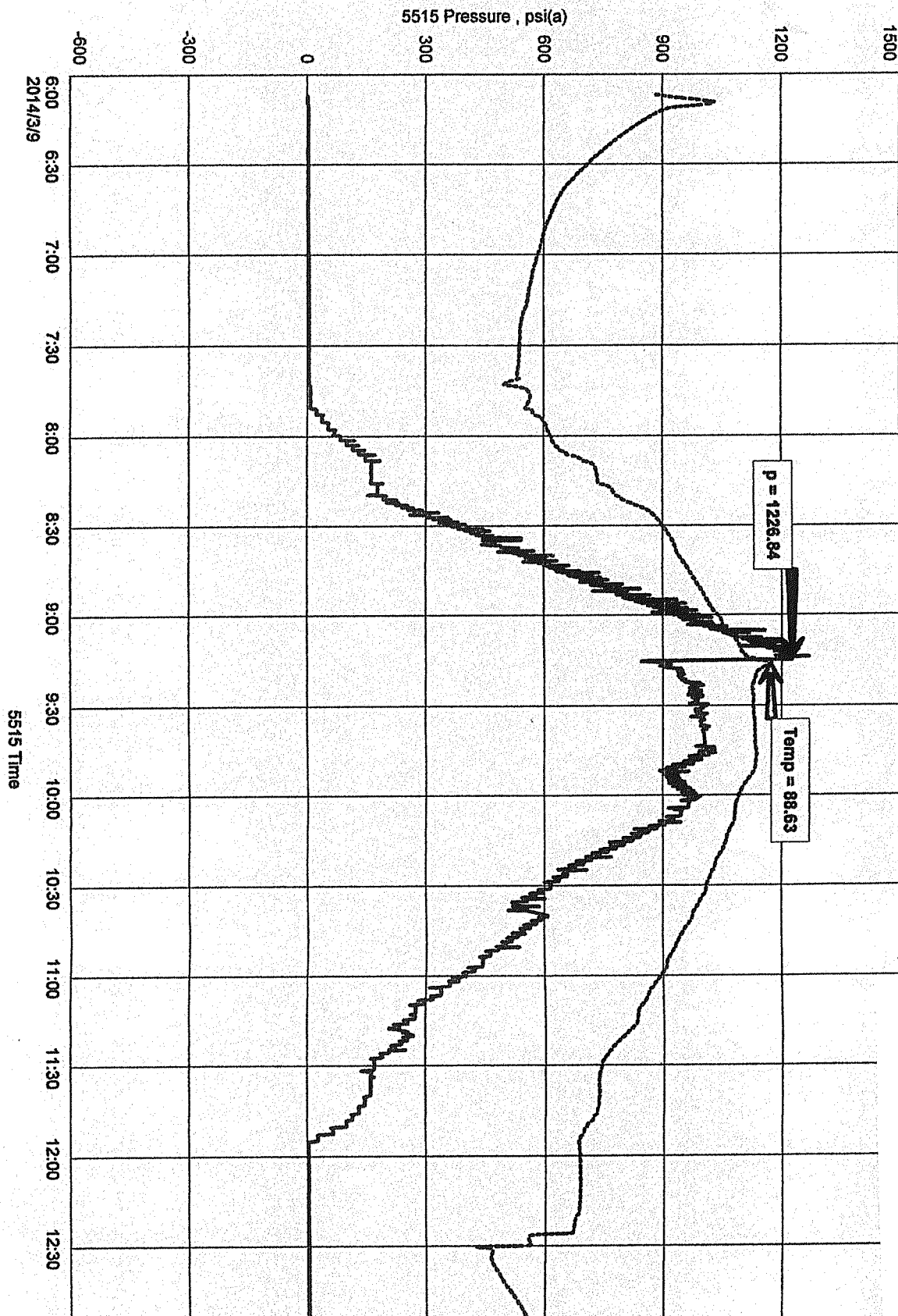
2600

RTD 2580-90: 80% fresh Δ, tr FL, NSATD 2594(-1157)
 20% weat Δ, sl FL, SSFO
 2594' 15/30": 70% fresh Δ, tr FL
 NS
 30% weat Δ, sl FL
 SSFO, sl odor

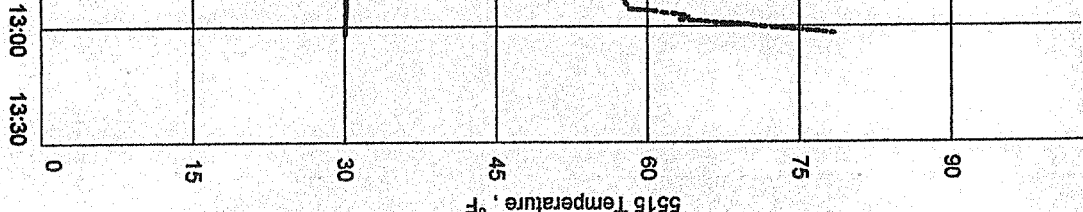
Range Oil Co.
 Dst 1 Mississippi (2505-2544)
 Start Test Date: 2014/03/09
 Final Test Date: 2014/03/09

Walter B #18

DST #1 2505-254
 Hit Bridge Tool

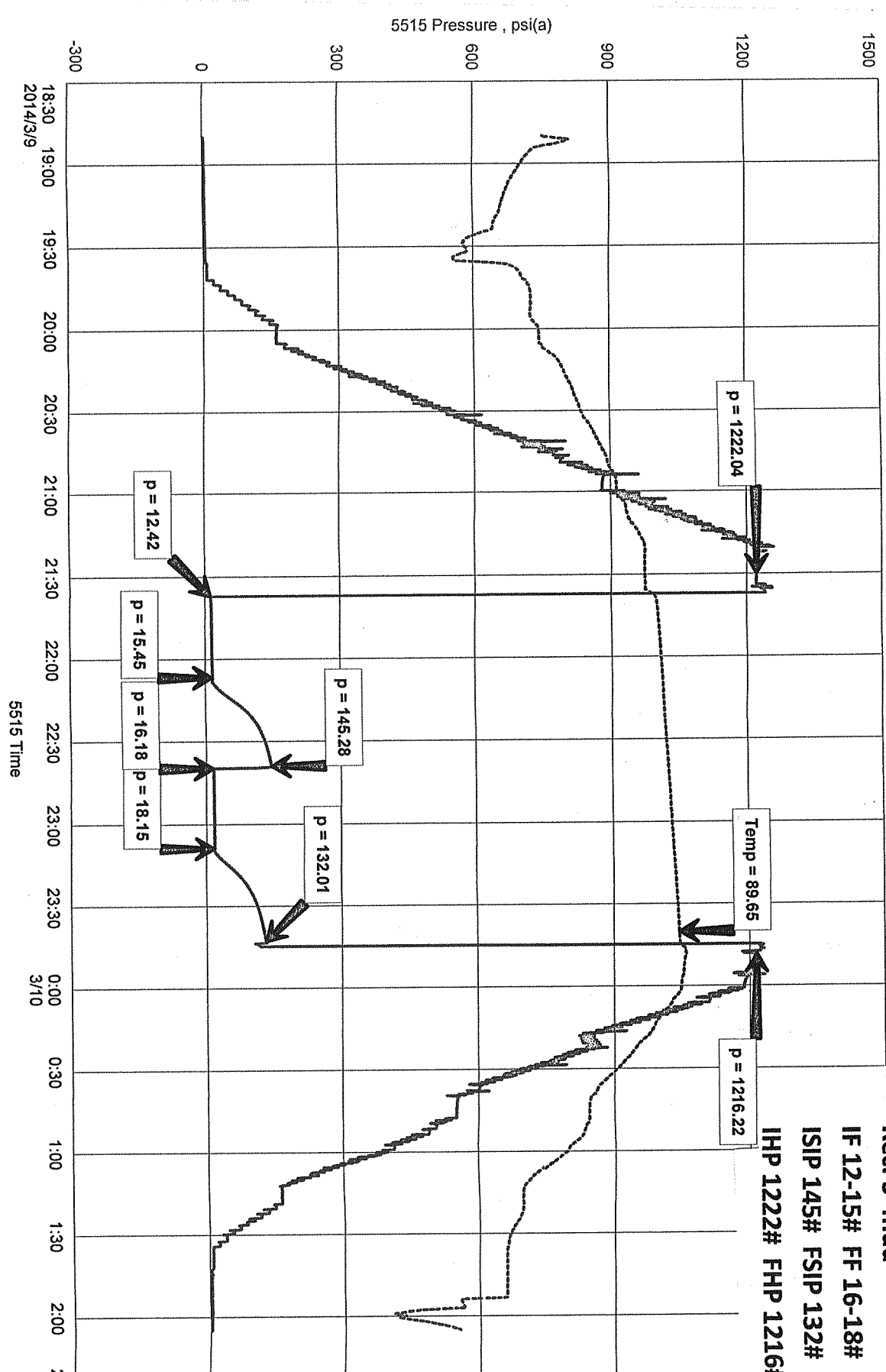


14' (Miss Ct)
Open - Misrun



Range Oil Co
Dst 2 Mississippi (2505-2544)
Start Test Date: 2014/03/09
Final Test Date: 2014/03/10

Walters B # 18



DST #2 2502-2544' (N
30-30-30-30
IF ¼" blow died 20 m
FF no blow
Rec: 5' mud
IF 12-15# FF 16-18#
ISIP 145# FSIP 132#
IHP 1222# FHP 1216#

Miss Ct)

in.

#

5515 Temperature, °F

80

60

40

20

0

2:30

Pos