



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1254583
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: _____



1254583

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 <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:				

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: Yes No

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

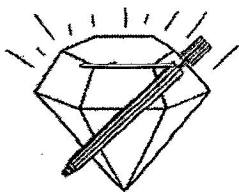
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Bird Dog Oil, LLC
Well Name	Pioneer-Schubert 4-23
Doc ID	1254583

All Electric Logs Run

DIL
DUCP
MEL
BHCS



DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
PIONEER-SCHU4-23DST1

Company Bird Dog Oil, LLC Lease & Well No. Pioneer-Schubert No. 4-23
Elevation 1748 KB Formation Douglas Sandstone Effective Pay _____ Ft. Ticket No. A135
Date 12-15-14 Sec. 23 Twp. 19S Range 10W County Rice State Kansas
Test Approved By Adam Nighswonger Diamond Representative Andy Carreira

Formation Test No. 1 Interval Tested from 2,834 ft. to 2,872 ft. Total Depth 2,872 ft.
Packer Depth 2,829 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 2,834 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 2,815 ft. Recorder Number 5585 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 2,836 ft. Recorder Number 8471 Cap. 10,000 psi.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 6 Drill Collar Length _____ ft I.D. _____ in.
Mud Type Chemical Viscosity 50 Weight Pipe Length _____ ft I.D. _____ in.
Weight 9.1 Water Loss 8.0 cc. Drill Pipe Length 2,802 ft I.D. 3 1/2 in.
Chlorides 7,500 P.P.M. Test Tool Length 32 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 9 Anchor Length 38 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 4 1/2-XH in.

Blow: 1st Open: Weak, surface blow. No blow back during shut-in.

2nd Open: No blow. Flushed tool. Surged. Received a weak, surface blow that died in 5 mins. No blow back during shut-in.

Recovered 15 ft. of mud = .213450 bbls.
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

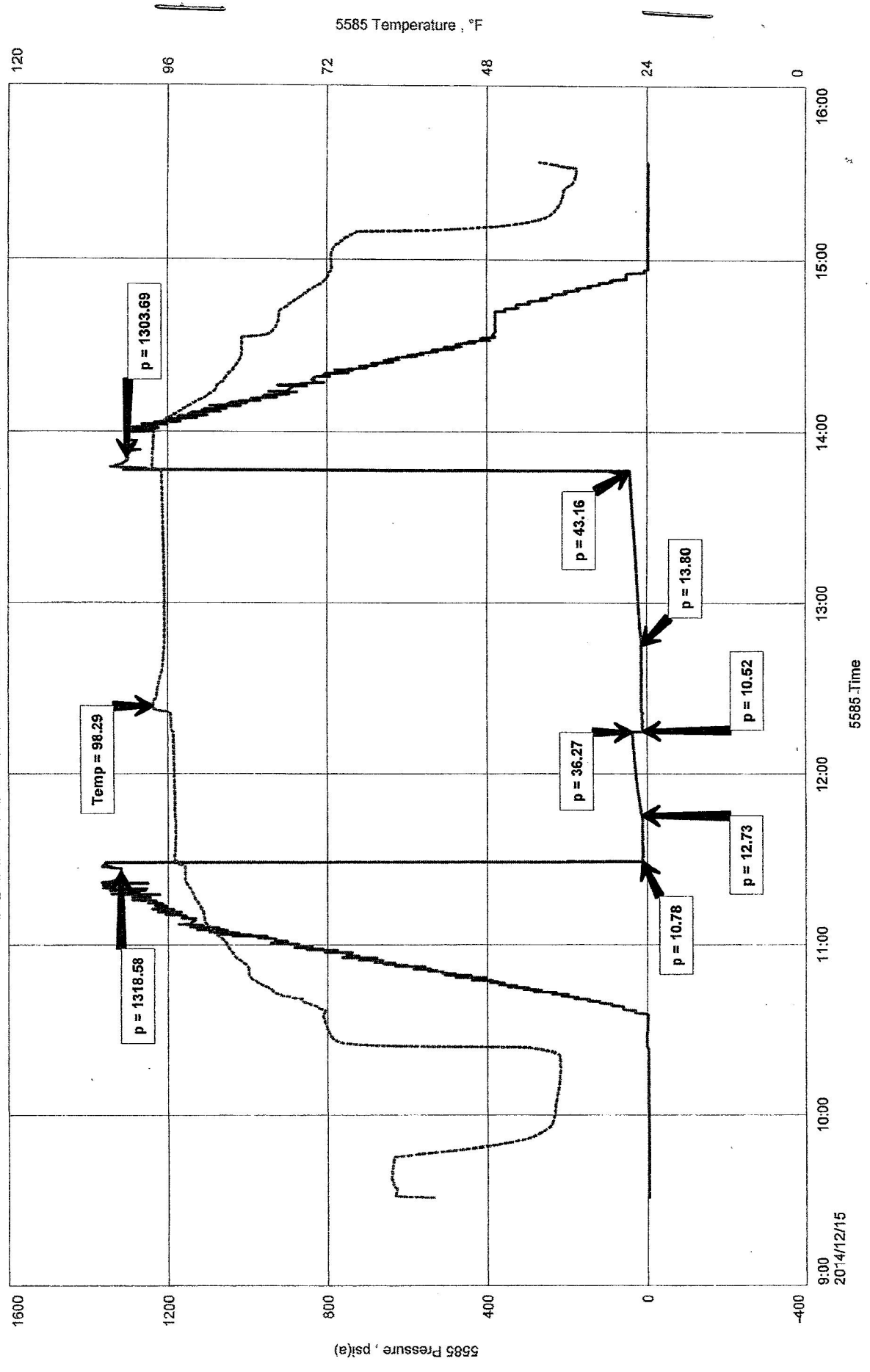
Remarks Tool Sample Grind Out: 100%-mud

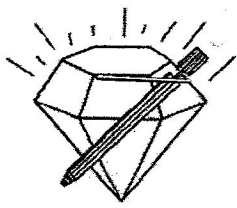
Time Set Packer(s) 11:30 A.M. Time Started off Bottom 1:45 P.M. Maximum Temperature 98°
Initial Hydrostatic Pressure.....(A) 1319 P.S.I.
Initial Flow Period.....Minutes 15 (B) 11 P.S.I. to (C) 13 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 36 P.S.I.
Final Flow Period.....Minutes 30 (E) 11 P.S.I. to (F) 14 P.S.I.
Final Closed In Period.....Minutes 60 (G) 43 P.S.I.
Final Hydrostatic Pressure.....(H) 1304 P.S.I.

BIRD DOG OIL, LLC
 DST 1 DOUGLAS SANDSTONE 2834-2872
 Start Test Date: 2014/12/15
 Final Test Date: 2014/12/15

PIONEER-SCHUBERT 4-23
 Formation: DST 1 DOUGLAS SANDSTONE 2834-2872
 Pool: WILDCAT
 Job Number: A135

PIONEER-SCHUBERT 4-23





DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
PIONEER-SCHU4-23DST2

Company Bird Dog Oil, LLC Lease & Well No. Pioneer-Schubert No. 4-23
Elevation 1748 KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. A136
Date 12-17-14 Sec. 23 Twp. 19S Range 10W County Rice State Kansas
Test Approved By Adam Nighswonger Diamond Representative Andy Carreira

Formation Test No. 2 Interval Tested from 3,205 ft. to 3,279 ft. Total Depth 3,279 ft.
Packer Depth 3,200 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3,205 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 3,186 ft. Recorder Number 5585 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,207 ft. Recorder Number 8471 Cap. 10,000 psi.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 6 Drill Collar Length _____ ft. I.D. _____ in.
Mud Type Chemical Viscosity 55 Weight Pipe Length _____ ft. I.D. _____ in.
Weight 9.5 Water Loss 9.2 cc. Drill Pipe Length 3,170 ft. I.D. 3 1/2 in.
Chlorides 8,500 P.P.M. Test Tool Length 35 ft. Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 9 Anchor Length 74 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 4 1/2-XH in.

Blow: 1st Open: Weak, surface blow. No blow back during shut-in.
2nd Open: No blow. No blow back during shut-in.

Recovered 10 ft. of mud = .142300 bbls.
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

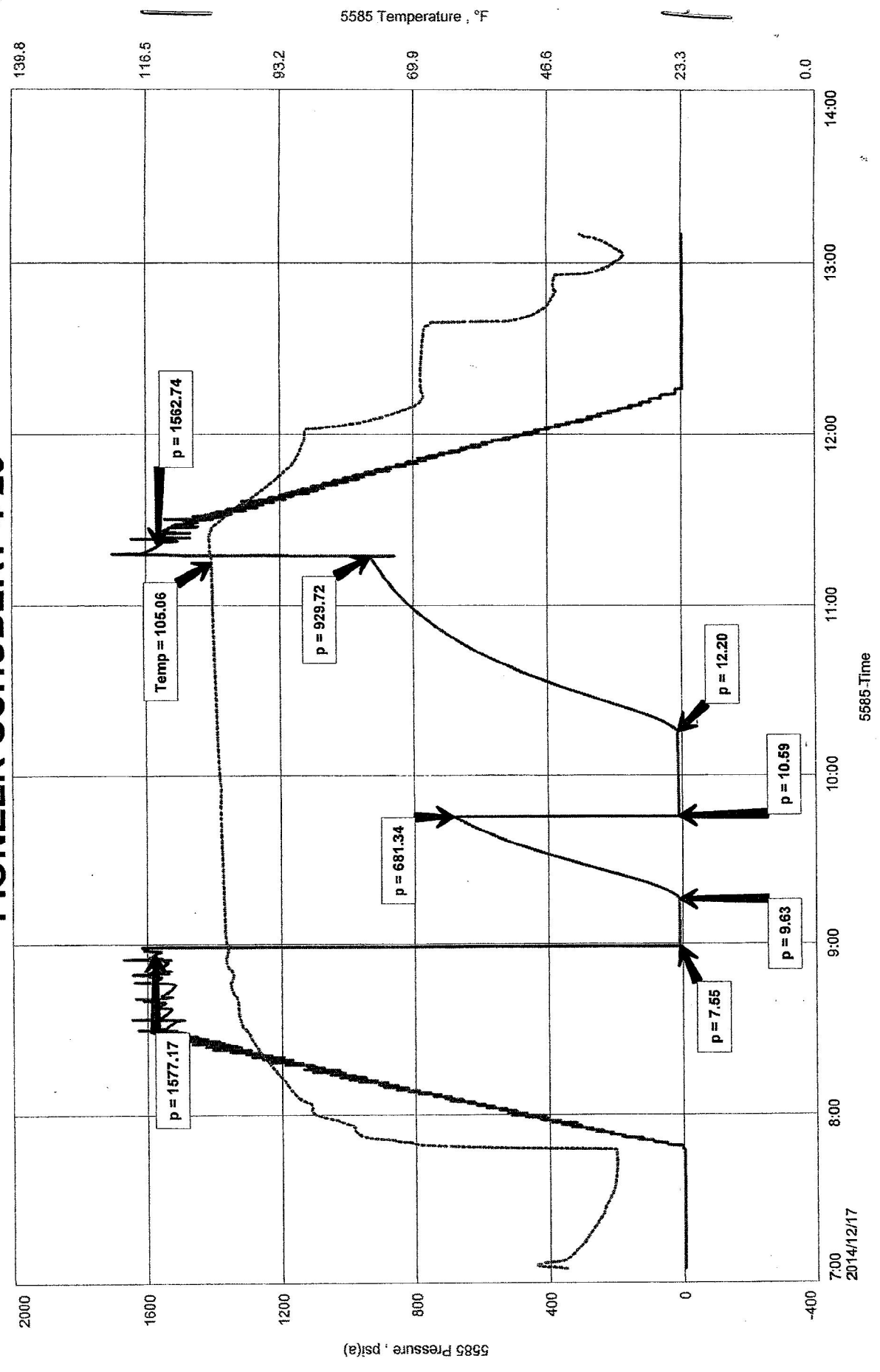
Remarks Tool Sample Grind Out: 100%-mud
Sampler Grind Out: Pressure = 30 lbs 4,000 ml-mud

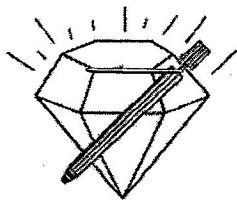
Time Set Packer(s) 9:00 A.M. Time Started off Bottom 11:15 A.M. Maximum Temperature 105°
Initial Hydrostatic Pressure.....(A) 1577 P.S.I.
Initial Flow Period.....Minutes 15 (B) 8 P.S.I. to (C) 10 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 681 P.S.I.
Final Flow Period.....Minutes 30 (E) 11 P.S.I. to (F) 12 P.S.I.
Final Closed In Period.....Minutes 60 (G) 930 P.S.I.
Final Hydrostatic Pressure.....(H) 1563 P.S.I.

PIONEER-SCHUBERT 4-23
 Formation: DST 2 ARBUCKLE 3205-3279
 Pool: WILDCAT
 Job Number: A136

BIRD DOG OIL, LLC
 DST 2 ARBUCKLE 3205-3279
 Start Test Date: 2014/12/17
 Final Test Date: 2014/12/17

PIONEER-SCHUBERT 4-23





DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
PIONEER-SCHU4-23DST3

Company Bird Dog Oil, LLC Lease & Well No. Pioneer-Schubert No. 4-23
Elevation 1748 KB Formation Arbuckle Effective Pay _____ Ft. Ticket No. A137
Date 12-17-14 Sec. 23 Twp. 19S Range 10W County Rice State Kansas
Test Approved By Adam Nighswonger Diamond Representative Andy Carreira

Formation Test No. 3 Interval Tested from 3,279 ft. to 3,285 ft. Total Depth 3,285 ft.
Packer Depth 3,274 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3,279 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 3,260 ft. Recorder Number 5585 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,281 ft. Recorder Number 8471 Cap. 10,000 psi.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 6 Drill Collar Length _____ ft. I.D. _____ in.
Mud Type Chemical Viscosity 55 Weight Pipe Length _____ ft. I.D. _____ in.
Weight 9.5 Water Loss 9.2 cc. Drill Pipe Length 3,244 ft. I.D. 3 1/2 in.
Chlorides 8,500 P.P.M. Test Tool Length 35 ft. Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 9 Anchor Length 6 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 4 1/2-XH in.

Blow: 1st Open: Strong blow increasing. Off bottom of bucket in 8 mins. 1 in. blow back during shut-in.
2nd Open: Strong blow increasing. Off bottom of bucket in 6 mins. Bottom of bucket blow back in 26 mins. during shut-in.

Recovered 912 ft. of gas in pipe
Recovered 30 ft. of clean gassy oil = .426900 bbls. (Grind out: 15%-gas; 85%-oil) Gravity: 48
Recovered 63 ft. of mud cut gassy oil = .896490 bbls. (Grind out: 10%-gas; 65%-oil; 25%-mud)
Recovered 189 ft. of water = 2.689470 bbls. (Grind out: 100%-water) Chlorides: 13,000 Ppm PH: 6.0 RW: .61 @ 60°
Recovered 282 ft. of TOTAL FLUID = 4.012860 bbls.
Recovered _____ ft. of _____

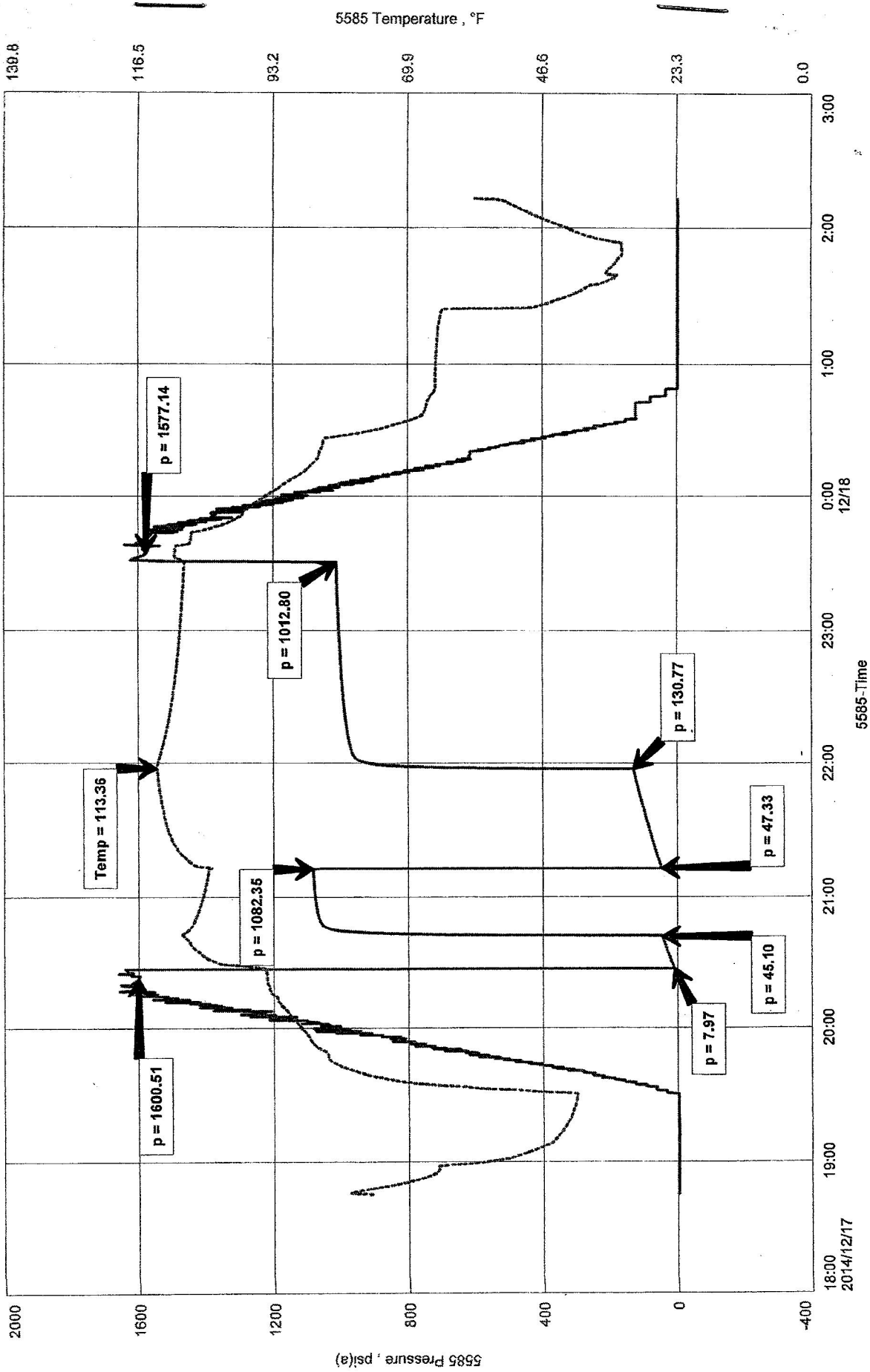
Remarks Tool Sample Grind Out: 20%-oil; 80%-water
Sampler Grind Out: Pressure = 80 lbs 1,800 ml-gas; 700 ml-oil; 1,500 ml-water

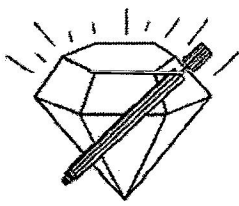
Time Set Packer(s) 8:27 P.M. Time Started off Bottom 11:27 P.M. Maximum Temperature 113°
Initial Hydrostatic Pressure.....(A) _____ P.S.I.
Initial Flow Period.....Minutes 15 (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period.....Minutes 30 (D) _____ P.S.I.
Final Flow Period.....Minutes 45 (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period.....Minutes 90 (G) _____ P.S.I.
Final Hydrostatic Pressure.....(H) _____ P.S.I.

BIRD DOG OIL, LLC
 DST 3 ARBUCKLE 3279-3285
 Start Test Date: 2014/12/17
 Final Test Date: 2014/12/18

PIONEER-SCHUBERT 4-23
 Formation: DST 3 ARBUCKLE 3279-3285
 Pool: WILDCAT
 Job Number: A137

PIONEER-SCHUBERT 4-23





DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
PIONEER-SCHU4-23DST4

Company Bird Dog Oil, LLC Lease & Well No. Pioneer-Schubert No. 4-23
Elevation 1748 KB Formation Arbuckle Effective Pay Ft. Ticket No. A138
Date 12-18-14 Sec. 23 Twp. 19S Range 10W County Rice State Kansas
Test Approved By Adam Nighswonger Diamond Representative Andy Carreira

Formation Test No. 4 Interval Tested from 3,285 ft. to 3,290 ft. Total Depth 3,290 ft.
Packer Depth 3,280 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,285 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,266 ft. Recorder Number 5585 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,287 ft. Recorder Number 8471 Cap. 10,000 psi.
Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 6 Drill Collar Length ft I.D. in.
Mud Type Chemical Viscosity 55 Weight Pipe Length ft I.D. in.
Weight 9.5 Water Loss 9.2 cc. Drill Pipe Length 3,250 ft I.D. 3 1/2 in.
Chlorides 8,500 P.P.M. Test Tool Length 35 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number 9 Anchor Length 5 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 4 1/2-XH in.

Blow: 1st Open: Strong blow increasing. Off bottom of bucket in 6 mins. No blow back during shut-in.

2nd Open: Strong blow increasing. Off bottom of bucket in 10 mins. No blow back during shut-in.

Recovered 524 ft. of water = 7.456520 bbls. (Chlorides: 13,000 Ppm PH: 6.0 RW: .61 @ 60°)

Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks Tool Sample Grind Out: 100%-water

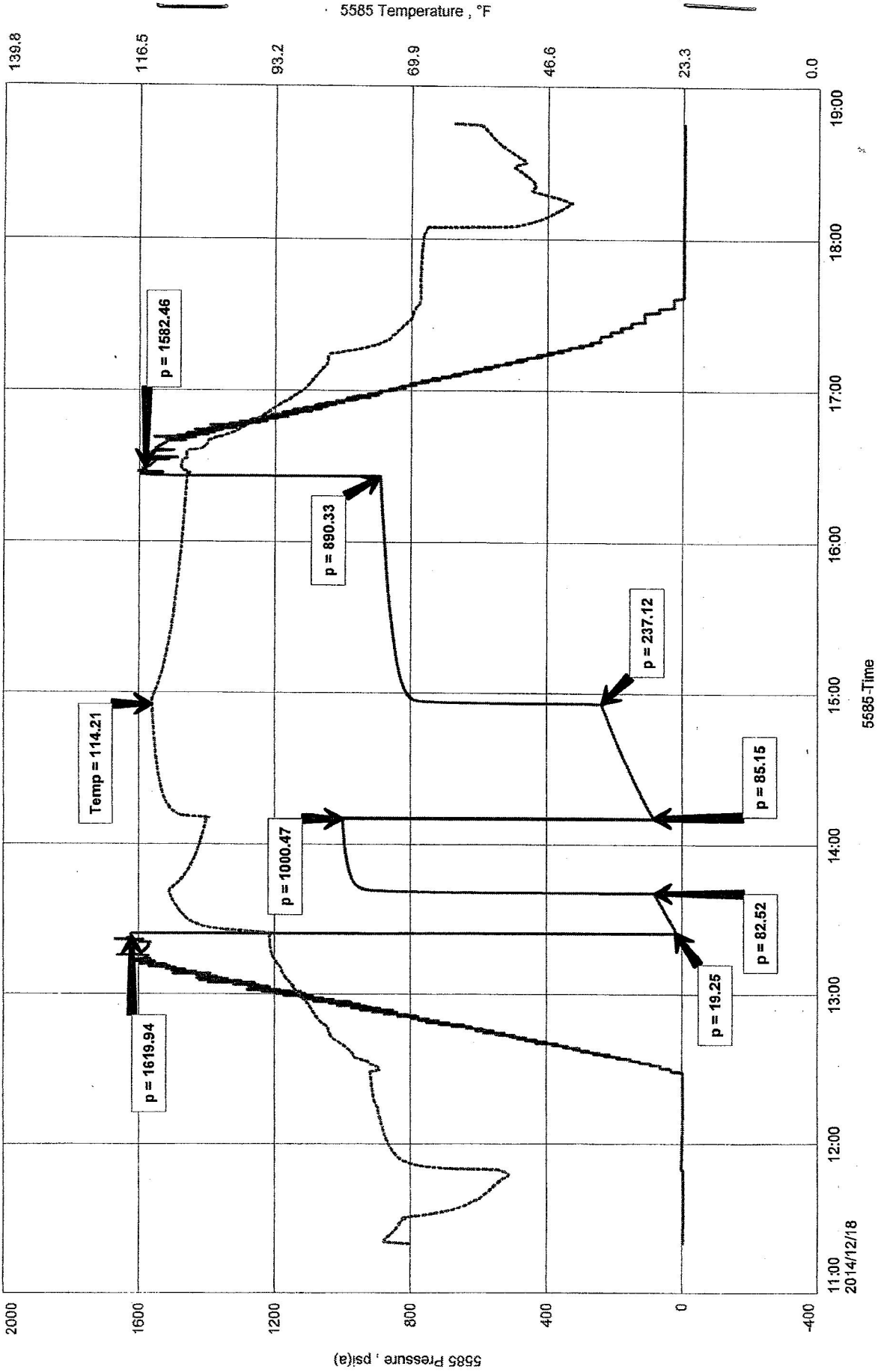
Sampler Grind Out: Pressure = 125 lbs 4,000 ml-water

Time Set Packer(s) <u>1:25 P.M.</u>	Time Started off Bottom <u>4:25 P.M.</u>	Maximum Temperature <u>114°</u>
Initial Hydrostatic Pressure.....(A) <u>1620</u> P.S.I.		
Initial Flow Period.....Minutes <u>15</u> (B) <u>19</u> P.S.I.	to (C) <u>83</u> P.S.I.	
Initial Closed In Period.....Minutes <u>30</u> (D) <u>1000</u> P.S.I.		
Final Flow Period.....Minutes <u>45</u> (E) <u>85</u> P.S.I.	to (F) <u>237</u> P.S.I.	
Final Closed In Period.....Minutes <u>90</u> (G) <u>890</u> P.S.I.		
Final Hydrostatic Pressure.....(H) <u>1582</u> P.S.I.		

BIRD DOG OIL, LLC
 DST 4 ARBUCKLE 3285-3290
 Start Test Date: 2014/12/18
 Final Test Date: 2014/12/18

PIONEER-SCHUBERT 4-23
 Formation: DST 4 ARBUCKLE 3285-3290
 Pool: WILDCAT
 Job Number: A138

PIONEER-SCHUBERT 4-23





Energy services, L.P.

TREATMENT REPORT

Owner <i>Brook Day oil</i>	Lease No.	Date <i>12-12-14</i>
Lease <i>Pioneer-Schubert</i>	Well # <i>4-23</i>	
Field Order # <i>11755</i>	Station <i>Pratt 14</i>	Casing <i>8 5/8</i>
Type Job <i>CNW 8 5/8 surface</i>	Depth <i>333</i>	County <i>Rice</i>
	Formation	State <i>KS</i>
		Legal Description <i>23-19-10</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8 5/8</i>								5 Min.
Depth <i>333</i>	Depth	From	To	Pre Pad	Max			10 Min.
Volume <i>20</i>	Volume	From	To	Pad	Min			15 Min.
Max Press <i>500</i>	Max Press	From	To	Frac	Avg			Annulus Pressure
Well Connection <i>P.C.</i>	Annulus Vol.	From	To		HHP Used			Total Load
Plug Depth <i>313</i>	Packer Depth	From	To	Flush	Gas Volume			

Customer Representative	Station Manager <i>DAVE Scott</i>	Treater <i>Robert [Signature]</i>
Service Units <i>37900 33700 20920 10959 19518</i>		
Driver Names <i>Sullivan Handford Phipe</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>9:00</i>	<i>100</i>				<i>on loc</i>
					<i>Run 8 5/8 surface</i>
<i>11:50</i>					<i>CASING on Bottom</i>
<i>11:55</i>					<i>Hook up on case</i>
<i>12:00</i>				<i>4.5</i>	<i>At mix cont 300stk com 2% gel 3% acc 1/4 CF</i>
			<i>65</i>		<i>cont mixed</i>
					<i>Done Plug</i>
				<i>3.5</i>	<i>At Displ</i>
<i>12:30</i>	<i>100</i>		<i>20</i>		<i>plug down</i>
					<i>circ 12 BBL cont Pit</i>
					<i>50B complete</i>
					<i>Thank you</i>