[redacted] 1372576

Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
November 2016
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33306
Name: Blake Exploration, LLC
Address 1: 201 S MAIN
Address 2: PO BOX 150
City: BOGUE State: KS Zip: 67625 + ____
Contact Person: Mike Davignon
Phone: (785) 421-2921
CONTRACTOR: License # 33905
Name: Royal Drilling Inc
Wellsite Geologist: Mike Davignon
Purchaser: ____

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☐ Oil ☐ WSW ☐ SWD
☐ Gas ☑ DH ☐ EOR
☐ OG ☐ GSW
☐ 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 EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #: ____
☐ Dual Completion Permit #: ____
☐ SWD Permit #: ____
☐ EOR Permit #: ____
☐ GSW Permit #: ____

06/05/2017 Spud Date or Recompletion Date
06/12/2017 Date Reached TD
06/12/2017 Completion Date or Recompletion Date

API No.: 15-109-21500-00-00
Spot Description: ____
SW - NE - NE - NW Sec. 7 Twp. 13 S. R. 33 ☐ East ☑ West
465 Feet from ☑ North / ☐ South Line of Section
2285 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW
GPS Location: Lat: ____ *(e.g. xx.xxxxx)* , Long: ____ *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Logan
Lease Name: WU Well #: 1
Field Name: ____
Producing Formation: NA
Elevation: Ground: 2983 Kelly Bushing: 2989
Total Vertical Depth: 4300 Plug Back Total Depth: ____
Amount of Surface Pipe Set and Cemented at: 221 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: 1000 ppm Fluid volume: 0 bbls
Dewatering method used: Evaporated
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** ☑ **Drill Stem Tests Received**
☐ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ **I** ☑ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 12/06/2017

[redacted]

1372576

Operator Name: Blake Exploration, LLC Lease Name: WU Well #: 1

Sec. 7 Twp. 13 S. R. 33 ☐ East ☑ West County: Logan

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

TCores aken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

Geologist Report / Mud Logs ☐ Yes ☑ No

List All E. Logs Run:

R/A guard

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
anhydrite	2424	+565
heebner	3856	-867
stark	4152	-1163

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	221	80/20	150	3%/2%

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/ Injection:	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:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Blake Exploration, LLC
Well Name	WU 1
Doc ID	1372576

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	221	80/20	150	3%/2%

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 248

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-5-17	7	13	33	Logan	KS		6:30 p.m.

Location Monument 11s W into

Lease W U Well No. 1

Contractor Royal

Type Job Surface

Hole Size 12¼ T.D. 221

Csg. 8 5/8 Depth 220

Tbg. Size Depth

Tool Depth

Cement Left in Csg. 10 Shoe Joint

Meas Line Displace 13 Bbl

EQUIPMENT

Pumptrk 20	No.	Cementer	Craig
		Helper	
Bulktrk	No.	Driver	Brett
		Driver	
Bulktrk 9	No.	Driver	
		Driver	Doug

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Ran 8 5/8 on bottom Brk Circulation. Mix 150sk Displace. Cement Circulated!

Quality Oilwell Cementing

To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Blake Exploration

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 150 80/20 3%cc 2%Gel

Common	120
Poz. Mix	30
Gel.	3
Calcium	6
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	159
Mileage	

FLOAT EQUIPMENT

~~Guide~~ Shoe	8 5/8 Swage
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Surface
Mileage	23
Tax	
Discount	
Total Charge	

X Signature Doug Bury

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 **Home Office P.O. Box 32 Russell, KS 67665** **No. 186**
Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-12-17	7	13	33	Logan	Ks		8:30PM

Location Monument - 11S, 1/2 W, 5/Into

Lease WU Well No. 1

Contractor Royal 1

Type Job plug

Hole Size 7 7/8" T.D. 4300'

Csg. Depth

Tbg. Size 4½" D.P. Depth 2450'

Tool Depth

Cement Left in Csg. Shoe Joint

Meas Line Displace H2O/mud

EQUIPMENT

Pumptrk 18 No. Cementer Helper Craig

Bulktrk 9 No. Driver Driver Doug

~~Bulktrk~~ p.u. No. Driver Driver Rick

JOB SERVICES & REMARKS

Remarks: 2450' - 50 sx

Rat Hole 1523' - 100 sx . 31

Mouse Hole 275' - 50 sx 41

Centralizers 40' - 10 sx w/ plug

Baskets Rathole w/ 30 sx

D/V or Port Collar Mousehole w/ 15 sx

Cement did Circulate

Owner

To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Blake exploration

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 255 60/40 4% Gel 1/4# Flo-seal

Common	153
Poz. Mix	102
Gel.	9
Calcium	
Hulls	
Salt	
Flowseal	50 lb
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	264
Mileage	

FLOAT EQUIPMENT

Guide Shoe	1 Dry Hole
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	plug
Mileage	23
Tax	
Discount	
Total Charge	

X Signature Doug Bury

Quality Oilwell Cementing

DRILL STEM TEST REPORT

Blake Exploration

201 S Main P.O. Box 150
Bogue KS
67625
ATTN: Mike Davignon

7-13s-33w Logan Co KS

Wu 1

Job Ticket: 63738 **DST#: 1**

Test Start: 2017.06.09 @ 17:48:15

GENERAL INFORMATION:

Formation: **C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:36:45
Time Test Ended: 00:15:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Mike Roberts
Unit No: 81

Interval: 3916.00 ft (KB) To 3950.00 ft (KB) (TVD)
Total Depth: 3950.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

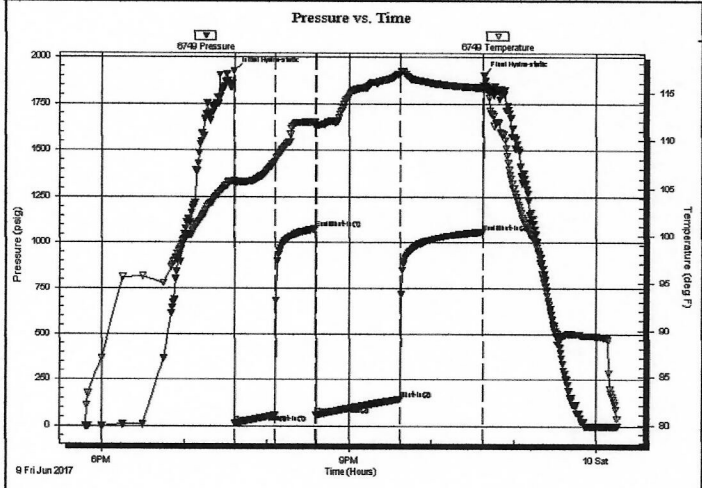
Reference Elevations: 2989.00 ft (KB)
2983.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6749 **Outside**

Press@RunDepth: 146.49 psig @ 3920.00 ft (KB)
Start Date: 2017.06.09 End Date: 2017.06.10
Start Time: 17:48:15 End Time: 00:15:45

Capacity: 8000.00 psig
Last Calib.: 2017.06.10
Time On Btm: 2017.06.09 @ 19:36:30
Time Off Btm: 2017.06.09 @ 22:38:15

TEST COMMENT: IF:Built to 4" blow
IS:No return blow
FF:Built to 4" blow
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1927.39	105.88	Initial Hydro-static
1	14.42	105.43	Open To Flow (1)
30	58.77	107.84	Shut-In(1)
60	1080.00	111.92	End Shut-In(1)
60	60.94	111.44	Open To Flow (2)
121	146.49	116.97	Shut-In(2)
181	1061.99	115.48	End Shut-In(2)
182	1904.56	115.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
154.00	mud 100%m	2.16
124.00	mcw 20%m 80%w	1.74
0.00	oil spots in tool	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Blake Exploration

201 S Main P.O. Box 150
Bogue KS
67625
ATTN: Mike Davignon

7-13s-33w Logan Co KS

Wu 1

Job Ticket: 63739 **DST#: 2**

Test Start: 2017.06.10 @ 07:30:15

GENERAL INFORMATION:

Formation: **D&E**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:14:30
Time Test Ended: 12:53:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Mike Roberts
Unit No: 81

Interval: 3945.00 ft (KB) To 3985.00 ft (KB) (TVD)
Total Depth: 3985.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

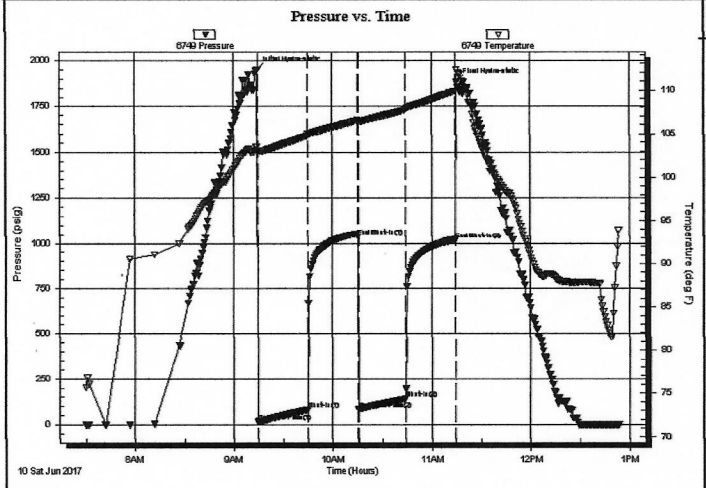
Reference Elevations: 2989.00 ft (KB)
2983.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6749 **Outside**

Press@RunDepth: 140.63 psig @ 3949.00 ft (KB)
Start Date: 2017.06.10 End Date: 2017.06.10
Start Time: 07:30:15 End Time: 12:53:30

Capacity: 8000.00 psig
Last Calib.: 2017.06.10
Time On Btm: 2017.06.10 @ 09:14:15
Time Off Btm: 2017.06.10 @ 11:15:15

TEST COMMENT: IF:Built to 7" blow
IS:No return blow
FF: Built to 5" blow
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1950.49	103.48	Initial Hydro-static
1	15.22	102.96	Open To Flow (1)
31	82.47	104.72	Shut-In(1)
61	1039.75	106.51	End Shut-In(1)
62	82.74	106.22	Open To Flow (2)
90	140.63	107.72	Shut-In(2)
121	1020.93	109.88	End Shut-In(2)
121	1885.28	112.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
154.00	w cm 10%w 90%m	2.16
124.00	w cm 40%w 60%m	1.74

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Blake Exploration

201 S Main P.O. Box 150
Bogue KS
67625
ATTN: Mike Davignon

7-13s-33w Logan Co KS

Wu 1

Job Ticket: 63740 **DST#: 3**

Test Start: 2017.06.11 @ 00:19:15

GENERAL INFORMATION:

Formation: **J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:18:00
Time Test Ended: 06:10:45

Test Type: Conventional Bottom Hole (Reset)
Tester: Mike Roberts
Unit No: 81

Interval: 4075.00 ft (KB) To 4110.00 ft (KB) (TVD)
Total Depth: 4110.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

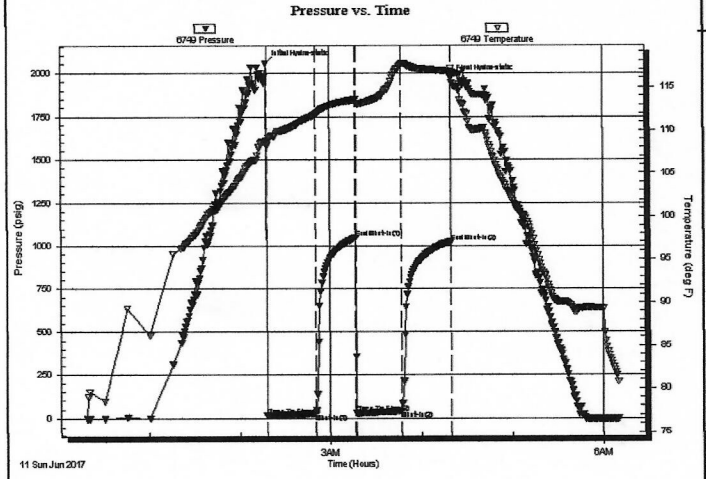
Reference Elevations: 2989.00 ft (KB)
2983.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6749 **Outside**

Press@RunDepth: 43.78 psig @ 4076.00 ft (KB)
Start Date: 2017.06.11 End Date: 2017.06.11
Start Time: 00:19:15 End Time: 06:10:45

Capacity: 8000.00 psig
Last Calib.: 2017.06.11
Time On Btm: 2017.06.11 @ 02:17:45
Time Off Btm: 2017.06.11 @ 04:20:00

TEST COMMENT: IF:Built to weak surface blow
IS:No return blow
FF:Built to weak surface blow
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2053.37	108.76	Initial Hydro-static
1	16.25	108.20	Open To Flow (1)
33	29.08	111.82	Shut-In(1)
59	1045.31	113.53	End Shut-In(1)
60	32.31	113.12	Open To Flow (2)
90	43.78	117.54	Shut-In(2)
122	1020.53	116.81	End Shut-In(2)
123	1969.67	117.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	wcm 2%w 98%m	0.87

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Blake Exploration

201 S Main P.O. Box 150
Bogue KS
67625

ATTN: Mike Davignon

7-13s-33w Logan Co KS

Wu 1

Job Ticket: 63741 **DST#: 4**

Test Start: 2017.06.11 @ 18:16:15

GENERAL INFORMATION:

Formation: **K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:54:00
Time Test Ended: 23:25:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Mike Roberts
Unit No: 81

Interval: 4110.00 ft (KB) To 4180.00 ft (KB) (TVD)
Total Depth: 4180.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

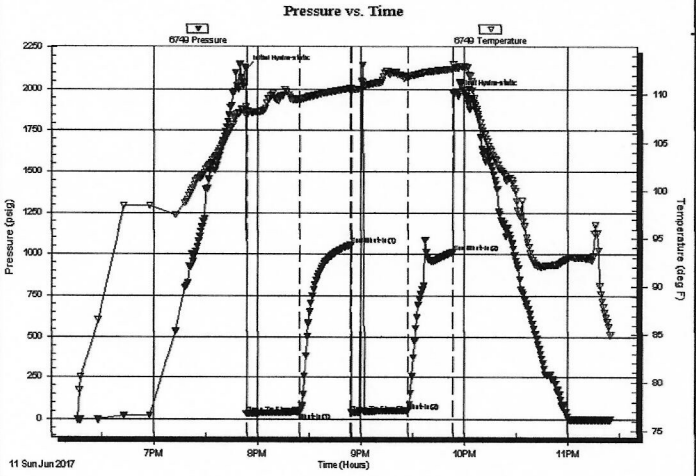
Reference Elevations: 2989.00 ft (KB)
2983.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6749 **Outside**

Press@RunDepth: 53.59 psig @ 4150.00 ft (KB)
Start Date: 2017.06.11 End Date: 2017.06.11
Start Time: 18:16:15 End Time: 23:25:00

Capacity: 8000.00 psig
Last Calib.: 2017.06.11
Time On Btm: 2017.06.11 @ 19:53:45
Time Off Btm: 2017.06.11 @ 21:53:45

TEST COMMENT: IF:Built to 1/8" blow
IS:No return blow
FF:No blow --Flushed tool built to 1/8" blow died back to w eak surface blow
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2119.53	108.76	Initial Hydro-static
1	35.87	107.84	Open To Flow (1)
31	40.88	109.51	Shut-In(1)
61	1055.74	110.67	End Shut-In(1)
61	43.09	110.23	Open To Flow (2)
94	53.59	111.72	Shut-In(2)
120	1012.51	112.66	End Shut-In(2)
120	1976.85	113.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	mud 100%m	0.63

* Recovery from multiple tests

Gas Rates

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