



DRILL STEM TEST REPORT

Prepared For: **D&J Oil Company**

4720 Wicarriott Oklahoma
73703

ATTN: Curtis Covey

Wicked Witch #1

6-20s-23w-Ness

Start Date: 2013.11.19 @ 08:35:00

End Date: 2013.11.19 @ 15:23:30

Job Ticket #: 18461

DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.11.20 @ 03:35:01

D&J Oil Company

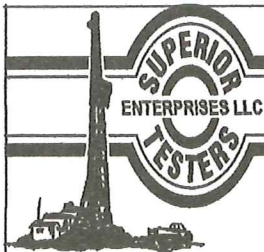
6-20s-23w-Ness

Wicked Witch #1

DST # 2

Mississippian

2013.11.19



DRILL STEM TEST REPORT

D&J Oil Company
4720 Wicarriott Oklahoma
73703
ATTN: Curtis Covey

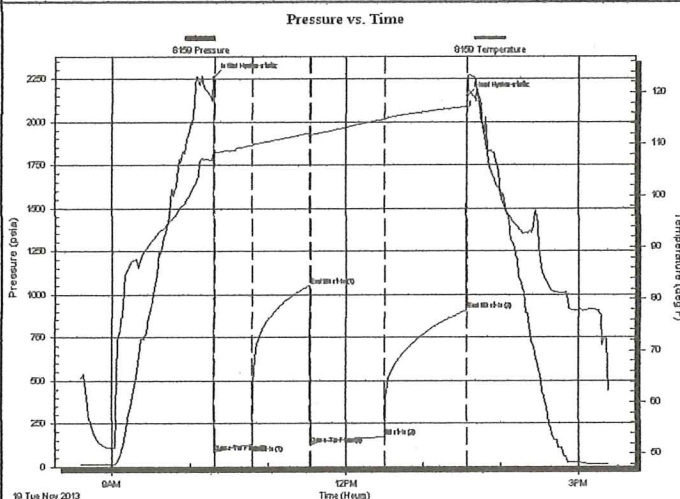
6-20s-23w-Ness
Wicked Witch #1
Job Ticket: 18461 DST#: 2
Test Start: 2013.11.19 @ 08:35:00

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:18:00
Time Test Ended: 15:23:30
Interval: **4360.00 ft (KB) To 4453.00 ft (KB) (TVD)**
Total Depth: **4453.00 ft (KB) (TVD)**
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: 3315-Great Bend-146
Reference Elevations: 2314.00 ft (KB)
2309.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: **8159** Outside
Press@RunDepth: 907.57 psia @ 4450.93 ft (KB)
Start Date: 2013.11.19 End Date: 2013.11.19
Start Time: 08:35:00 End Time: 15:23:30
Capacity: 5000.00 psia
Last Calib.: 2013.11.20
Time On Btm: 2013.11.19 @ 10:18:00
Time Off Btm: 2013.11.19 @ 13:34:00

TEST COMMENT: 1st Open 30 minutes Fair building blow built to 7.5 inches into a 5 gallon bucket of water.
1st Shut in 45 minutes No blow back
2nd Open 60 minutes Fair building blow built to 7 inches into a 5 gallon bucket of water.
2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2260.78	108.48	Initial Hydro-static
1	81.15	108.25	Open To Flow (1)
30	127.53	109.74	Shut-In(1)
75	1046.93	112.08	End Shut-In(1)
75	128.69	111.84	Open To Flow (2)
133	174.45	114.81	Shut-In(2)
196	907.57	117.25	End Shut-In(2)
196	2151.10	117.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
203.00	Very lightly oil spotted mud Mud 100%	2.58

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

D&J Oil Company
4720 Wicarriott Oklahoma
73703
ATTN: Curtis Covey

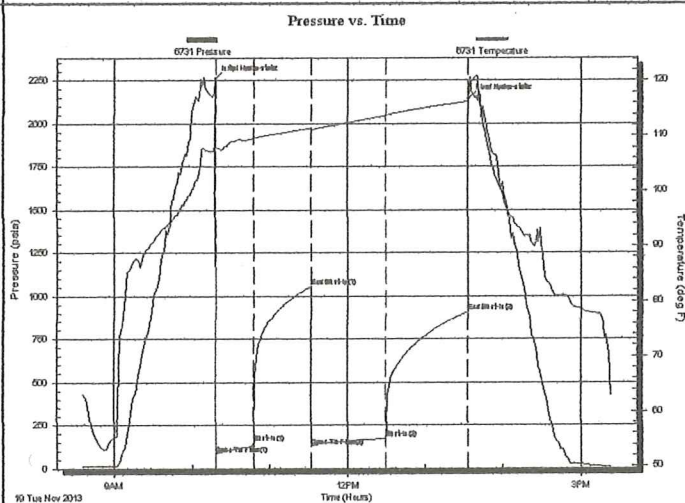
6-20s-23w-Ness
Wicked Witch #1
Job Ticket: 18461 DST#: 2
Test Start: 2013.11.19 @ 08:35:00

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 10:18:00
Time Test Ended: 15:23:30
Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Dustin Ellis**
Unit No: **3315-Great Bend-146**
Interval: **4360.00 ft (KB) To 4453.00 ft (KB) (TVD)**
Reference Elevations: **2314.00 ft (KB)**
Total Depth: **4453.00 ft (KB) (TVD)**
2309.00 ft (CF)
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
KB to GR/CF: **5.00 ft**

Serial #: **6731** Inside
Press@RunDepth: **175.07 psia @ 4449.93 ft (KB)** Capacity: **5000.00 psia**
Start Date: **2013.11.19** End Date: **2013.11.19** Last Calib.: **2013.11.20**
Start Time: **08:35:00** End Time: **15:23:30** Time On Btm: **2013.11.19 @ 10:17:30**
Time Off Btm: **2013.11.19 @ 13:33:30**

TEST COMMENT: 1st Open 30 minutes Fair building blow built to 7.5 inches into a 5 gallon bucket of water.
1st Shut in 45 minutes No blow back
2nd Open 60 minutes Fair building blow built to 7 inches into a 5 gallon bucket of water.
2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

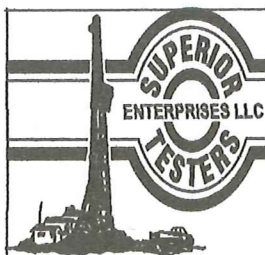
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2258.29	108.34	Initial Hydro-static
1	82.31	108.39	Open To Flow (1)
30	150.35	109.44	Shut-In(1)
75	1055.19	111.35	End Shut-In(1)
75	130.43	111.13	Open To Flow (2)
133	175.07	113.64	Shut-In(2)
196	907.22	116.19	End Shut-In(2)
196	2142.21	116.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
203.00	Very lightly oil spotted mud Mud 100%	2.58

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

D&J Oil Company
4720 Wicarriott Oklahoma
73703
ATTN: Curtis Covey

6-20s-23w-Ness
Wicked Witch #1
Job Ticket: 18461 DST#: 2
Test Start: 2013.11.19 @ 08:35:00

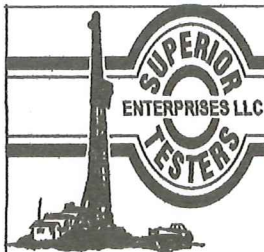
Tool Information

Drill Pipe:	Length: 4308.00 ft	Diameter: 3.80 inches	Volume: 60.43 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 29.53 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	64000.00 lb
		Total Volume:	60.58 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.53 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	4360.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	93.93 ft				
Tool Length:	121.93 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4337.00	
Hydraulic Tool	5.00			4342.00	
Jars	6.00			4348.00	
Safety Joint	2.00			4350.00	
Packer	5.00			4355.00	28.00 Bottom Of Top Packer
Packer	5.00			4360.00	
Anchor	5.00			4365.00	
Change Over Sub	0.75			4365.75	
Drill Pipe	63.43			4429.18	
Change Over Sub	0.75			4429.93	
Anchor	19.00			4448.93	
Recorder	1.00	6731	Inside	4449.93	
Recorder	1.00	8159	Outside	4450.93	
Bullnose	3.00			4453.93	93.93 Bottom Packers & Anchor

Total Tool Length: 121.93



DRILL STEM TEST REPORT

FLUID SUMMARY

D&J Oil Company
4720 Wicarriott Oklahoma
73703
ATTN: Curtis Covey

6-20s-23w-Ness
Wicked Witch #1
Job Ticket: 18461 DST#: 2
Test Start: 2013.11.19 @ 08:35:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 5000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia
Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
203.00	Very lightly oil spotted mud Mud 100%	2.579

Total Length: 203.00 ft Total Volume: 2.579 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6731

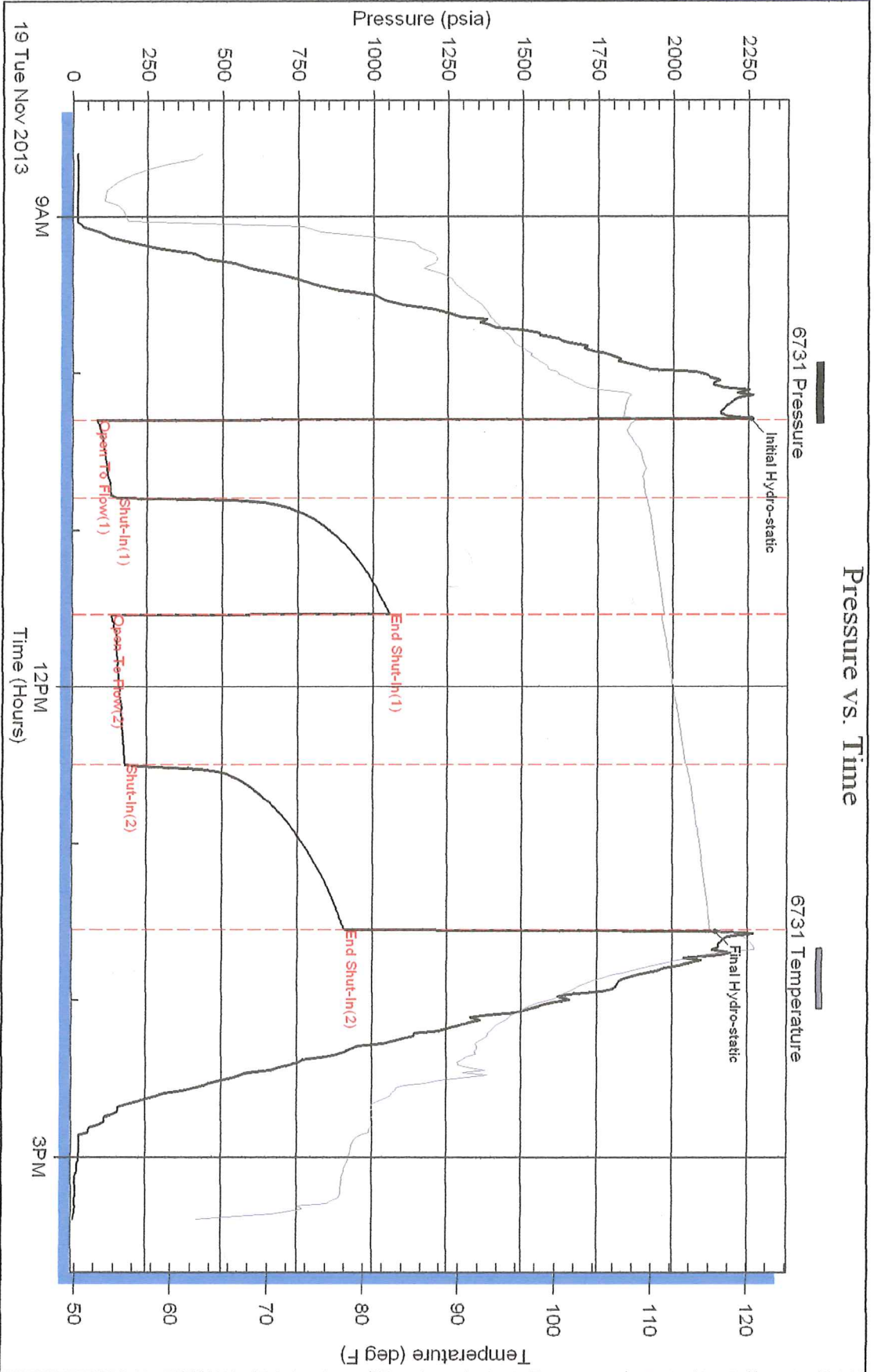
Inside

D&J Oil Company

Wicked Witch #1

DST Test Number: 2

Pressure vs. Time

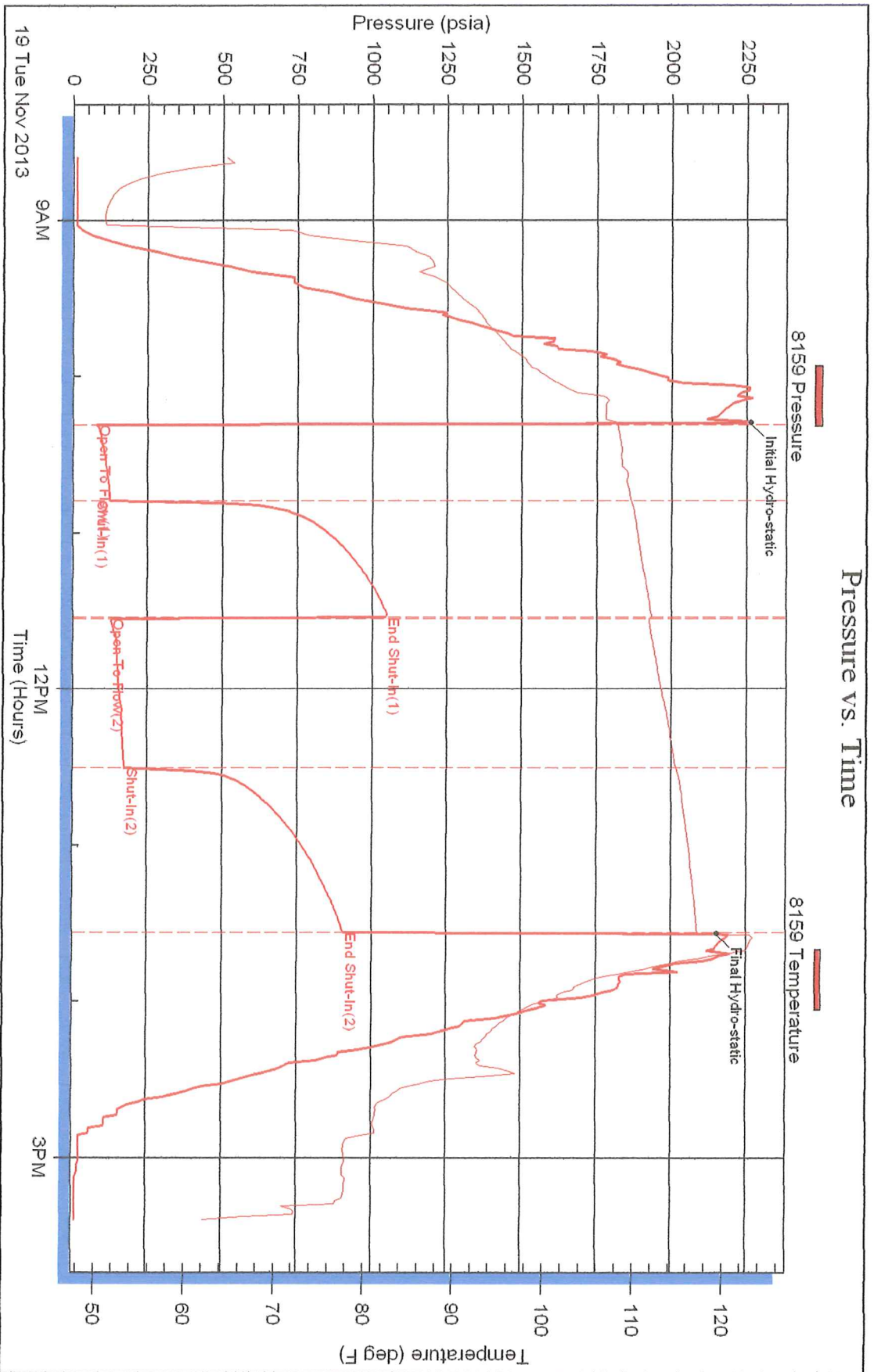


Serial #: 8159

Outside D&J Oil Company

Wicked Wfch #1

DST Test Number: 2



Superior Testers Enterprises L.L.C.

P.O. Box 138, Great Bend, Kansas 67530

(800) 792-6902

Company D&J Oil Company
 Address 4720 W. Garnett Oklahoma 73703
 Lease & # Wicked Witch #1 Sec. 6 Twp 20 Rng 23
 Date 11-19-2013 County Wess Elevation 2309 G.L. 2314 K.B.
 Drilling Contractor Murfin Drilling Rig Co
 Drill Pipe Length 4308 I.D. of Drill Pipe 3.80 Tool Joint Size 4 1/2 x 6
 Drill Collar Length 29.53 I.D. of Drill Collars 2.25 Tool Joint Size 4 1/2 x 4
 Mud Weight 9.2 Viscosity 54 Filtrate 8.0 Chlorides-Pits 5000 DST
 Top Packer Depth 4355 Bottom Packer Depth 4360 Number of Packers 2
 Tested From 4360 to 4453 Total Depth 4453 Anchor Length 93
 Test # 2 Formation Tested Mississippian Hole Size 7 7/8
 Initial Blow Fair building blow built to 7 1/2 inches into a 5 gallon bucket of water. Blow back on the 1st Shut-in 100
 Final Blow Fair building blow built to 7 inches into a 5 gallon bucket of water. Blow back on the 2nd Shut-in 100
 Initial Hydrostatic 2258 P.S.I. Final Hydrostatic 2142 P.S.I. Maximum Temp. 118 F

Initial Opening <u>82</u> P.S.I. to <u>150</u> P.S.I. from <u>10:16</u> m to <u>10:46</u> m <u>30</u> minutes
Initial Shut-in <u>1055</u> P.S.I. from <u>10:46</u> m to <u>11:31</u> m <u>45</u> minutes
Final Opening <u>130</u> P.S.I. to <u>175</u> P.S.I. from <u>11:31</u> m to <u>12:31</u> m <u>60</u> minutes
Final Shut-in <u>907</u> P.S.I. from <u>12:31</u> m to <u>1:31</u> m <u>60</u> minutes

Feet	Recovery Description	% Gas	% Oil	% Mud	% Water
203	very lightly oil spotted mud			100	
	Superior owes 1HR to Operator				

Total Feet Recovered 203 Recovery Chlorides — Rw. — ohms @ — Degrees
 Gravity of oil — Corrected Gas to Surface in — minutes into the —
 Max. Gas Gauged — MCF/day See Gas Flow Report Was a gas sample taken —
 Comments Thanks!

Extra Equipment-Jars Yes Safety Joint Yes Circulating Sub none Straddle none
 Electronic Recorder No. 6731 Depth 4449 Extra Packer (3rd) none Hook Wall none
 Bottom Recorder No. 8159 Depth 4450 Extra Packer (4th) none Sampler none
 Tool Operator Dustin Ellis Approved By N-A

Ticket No. **18461**