Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1274958

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 # 31938
Name: Indian Oil Co., Inc.
Address 1: PO BOX 209
Address 2: 2507 SE US 160 HWY
City: MEDICINE LODGE State: KS Zip: 67104 + 0209
Contact Person: Anthony Farrar
Phone: (620) 886-3763
CONTRACTOR: License # 34484
Name: Fossil Drilling, Inc.
Wellsite Geologist: Aaron L. Young
Purchaser: Shell Trading/ Targa

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 #:

08/14/2015 Spud Date or Recompletion Date
08/20/2015 Date Reached TD
9/22/2015 Completion Date or Recompletion Date

API No. 15 - 15-007-24282-00-00
Spot Description:
N2 - SW - NE - NW Sec. 21 Twp. 32 S. R. 12 ☐ East ☑ West
800 Feet from ☑ North / ☐ South Line of Section
1650 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: Barber
Lease Name: Jerome Well #: 1
Field Name:
Producing Formation: Simpson
Elevation: Ground: 1582 Kelly Bushing: 1594
Total Vertical Depth: 4840 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 265 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: 38000 ppm Fluid volume: 1800 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: BEMCO, LLC
Lease Name: COLE SWD License #: 32613
Quarter NW Sec. 25 Twp. 32 S. R. 12 ☐ East ☑ West
County: Barber Permit #: 15-007-30378-0001

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: 01/13/2016
☐ **Confidential Release Date:**
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 01/19/2016

[redacted] 1274958

Operator Name: Indian Oil Co., Inc. Lease Name: Jerome Well #: 1

Sec. 21 Twp. 32 S. R. 12 ☐ East ☑ West County: Barber

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 *(Attach Additional Sheets)*	☑ Yes	☐ No	☐ Log	Formation (Top), Depth and Datum ☑ Sample
Samples Sent to Geological Survey	☑ Yes	☐ No	Name: Attached	Top: Attached Datum: Attached
Cores Taken	☐ Yes	☑ No		
Electric Log Run	☑ Yes	☐ No		

List All E. Logs Run:

Attached

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	265	A	225	CA-100
Production	7.785	5.5	15.5	4603	100 CB-ASA, 50 CB-APA-4050	150	CB-ASA, Kol-Seal, CFL-210, Defoamer,

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	-			
	-			

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
2	4385-4389, 4596-4400, 4403-4419, 4423-4427	1000 gal 10% HCL, 2000 gal 15% HCL	
		20 tank hybrid, 369,567 gal water, 171,200# sand	

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 11/23/2015

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: ☐ Vented ☑ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)* _____

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Indian Oil Co., Inc.
Well Name	Jerome 1
Doc ID	1274958

All Electric Logs Run

Gamma Ray
Barehole Compensated Neutron
Photoelectric Lithology Density
X-Y Caliper Combined
Phased Induction Tool
Micro Log

Form	ACO1 - Well Completion
Operator	Indian Oil Co., Inc.
Well Name	Jerome 1
Doc ID	1274958

Tops

Name	Top	Datum
HEEBNER	3669	-2075
LANSING	3840	-2246
STARK	4216	-2622
HUSHPUCKNEY	4251	-2657
MISSISSIPPI	4384	-2790
KINDERHOOK SH	4546	-2952
WOODFORD SH	4614	-3020
VOILA	4667	-3073
SIMPSON SH	4766	-3172
SIMPSON SAND	4788	-3194

Form	ACO1 - Well Completion
Operator	Indian Oil Co., Inc.
Well Name	Jerome 1
Doc ID	1274958

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	265	A	225	CA-100
Production	7.785	5.5	15.5	4603	100 CB-ASA, 50 CB-APA-40504	150	CB-ASA, Kol-Seal, CFL-210, Defoamer, KCL

CELLS WITH BLUE BACKGROUND ARE THE ONLY CELLS TO BE EDITED*

Fracture Start Date/Time:	**10/6/15 9:30**
Fracture End Date/Time:	**10/6/15 14:09**
State:	**Kansas**
County:	**Barber**
API Number:	**15-007-24282-0000**
Operator Number:	**Indian Oil Company Inc**
Well Name:	**Jerome #1**
Federal Well:	**Yes**
Longitude:	**-98.6350985**
Latitude:	**37.2518763**
Long/Lat Projection:	**NAD27**
True Vertical Depth (TVD):	**4,900'**
Total Clean Fluid Volume* (gal):	**369,567**

(e.g. XX-XXX-XXXXX-0000)

Additive	*Specific Gravity*	*Additive Quantity*	*Mass (lbs)*	
Water	1.00	**369,567**	***3,084,037***	*gal*
Sand (Proppant)	2.65	**171,200**	***171,200***	*lb*
Plexslick 957	1.11	**259**	***2,399***	*gal*
Plexsurf 580 ME	1.11	**93**	***861***	*gal*
Plexsurf 580 ME	1.11	**93**	***861***	*gal*
Plexcide P5	0.96	**40**	***320***	*gal*
Plexcide P5	0.96	**40**	***320***	*gal*
Plexgel Breaker XPA	1.03	**72**	***619***	*gal*
Plexset 730	0.90	**78**	***586***	*gal*
				gal
				gal
				gal
				gal
				gal
				gal
				gal
				gal
				gal
				gal
			Total Slurry Mass (Lbs)	
			3,261,204	

Ingredients Section:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments	
Water	Operator	Carrier/Base Fluid	Water	7732-18-5	100.00%	***3,084,037***	***94.56742%***		Water
Sand (Proppant)	Uniman	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	100.00%	***171,200***	***5.24959%***		Sand (Proppant)
Plexslick 957	Chemplex	Friction Reducer	Petroleum Hydrotreated Light Distillate	64742-47-8	25.00%	***600***	***0.01839%***		Plexslick 957
Plexsurf 580 ME	Chemplex	Surfactant	Methyl Alcohol	67-56-1	10.00%	***86***	***0.00264%***		Plexsurf 580 ME
Plexsurf 580 ME	Chemplex	Surfactant	2-Btoxyethanol	111-76-2	50.00%	***431***	***0.01321%***		Plexsurf 580 ME
Plexcide P5	Chemplex	Liquid Biocide	Tributyl Tetradecyl Phosphonium Chloride	81741-28-8	5.00%	***16***	***0.00049%***		Plexcide P5
Plexcide P5	Chemplex	Liquid Biocide	Methanol	67-56-1	20.00%	***64***	***0.00197%***		Plexcide P5
Plexgel Breaker XPA	Chemplex	Gel Breaker	Hydrogen Peroxide	7722-84-1	7.00%	***43***	***0.00133%***		Plexgel Breaker XPA
Plexset 730	Chemplex	Activator	Methanol	67-56-1	50.00%	***293***	***0.00898%***		Plexset 730
									Plexset 730
									Plexset 730
									Plexset 730
									Plexset 730
									Plexset 730
									Plexset 730
									Plexset 730
									Plexset 730
									Plexset 730
								Non-MSDS Component	
								Non-MSDS Component	
								Non-MSDS Component	
								Non-MSDS Component	
								Non-MSDS Component	
								Non-MSDS Component	

*Total Water Volume sources may include fresh water, produced water, and/or recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

ALLIED
OIL & GAS SERVICES, LLC

Cement Job Summary

Job Number:	MLK150820230	Job Purpose	02 Production/Long String		
Customer:	Indian Oil Co			Date:	8/20/2015
Well Name:	JEROME		Number: # 1	API/UWI:	
County:	Barber	City:	VIC MEDICINE LODGE	State:	Kansas
Cust. Rep:	ANTHONY FARRAR	Phone:		Rig Phone:	
Distance	3 miles (one way)		Supervisor	Jake Heard	

Employees:	Emp ID	Employees:	Emp ID
JAKE HEARD	#N/A		
KINDEL HOLIMAN	0		
JASON THIMESCH	#N/A		

Equipment:	
CEMENTERS PICK-UP 717	
PUMP TRUCK 892-555	
BULK TRUCK 988-989	

Materials - Pumping Schedule

STAGE #1

Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Spacer 1	HIVIS SWEEP	12	8.40	n/a	n/a
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Lead 1	ALLIED SPECIAL BLEND CEMENT - CLASS A	100	14.55	1.57	7.00
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Tail 1	ALLIED 40/60/4 POZ BLEND - CLASS A	50	13.89	1.40	6.70
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Disp. 1	2% KCL	124.4537803	8.33	n/a	n/a

Slurry: Lead 1	Slurry Name: ALLIED SPECIAL BLEND CEMENT - CLASS A				
Quantity:	100 sacks	**Blend Vol:**	131.92 cu.ft.	**Blend Weight:**	11256.6 lbs
Material	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM
CCAC	CLASS A COMMON	94	% Base Materia	9400.0	lbm
CA-200	SODIUM CHLORIDE	6	lb/sk	600.0	lbm
CA-500	GYPSUM	5.17	% BWOC	517.0	lbm
CGEL	GEL - BENTONITE	1.88	% BWOC	188.0	lbm
CLC-KOL	KOL-SEAL	5	lb/sk	500.0	lbm
CFL-210	FLUID LOSS ADDITIVE - LOW TEMP	0.376	% BWOC	37.6	lbm
CDF-100P	DEFOAMER - POWDER	0.14	lb/sk	14.0	lbm
Water	Mixing Water	7.00	gal/sk	700	gal

Slurry: Tail 1	Slurry Name: ALLIED 40/60/4 POZ BLEND - CLASS A				
Quantity:	50 sacks	**Blend Vol:**	52.87 cu.ft.	**Blend Weight:**	4472 lbs
Material	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM
CCAC	CLASS A COMMON	56.4	% Base Materia	2820.0	lbm
CPOZ	POZMIX FLYASH	29.6	% Base Materia	1480.0	lbm
CGEL	GEL - BENTONITE	3.44	% BWOC	172.0	lbm
Water	Mixing Water	6.70	gal/sk	335.0	gal

Job Number:	MLK150820230	Job Purpose	02 Production/Long String		
Customer:	Indian Oil Co			Date:	8/20/2015
Well Name:	JEROME		Number: # 1	API/UWI:	
County:	Barber	City:	VIC MEDICINE LODGE	State:	Kansas

ALLIED
OIL & GAS SERVICES, LLC

Cement Job Summary

Cust. Rep:	ANTHONY FARRAR		Phone:		Rig Phone:	0
Distance	3 miles (one way)				Supervisor	Jake Heard
DATE	**TIME**	**PRESSURE - (PSI)**		**FLUID PUMPED DATA**		**COMMENTS**
	AM/PM	**CASING**	**ANNULUS**	**VOLUME**	**RATE (BPM)**	
8/20/2015	11:00:00 PM					ARRIVE ON LOCATION
						SAFETY MEETING
	11:15:00 PM					SPOT IN /RIG UP
8-21-15	1:15:00 AM					RUN FLOAT EQUIPMENT
						RUN CASING
						SAFETY MEETING
						PUMP BALL THROUGH
	4:00:00 AM					CIRCULATE
		2500				PRESSURE TEST
		250		12	4	PUMP SPACER
		200		12.5	3	RAT AND MOUSE HOLES
		200		28	6	MIX AND PUMP CEMENT
						STOP
						WASH PUMP AND LINES
		70-450		1-100	6	DISPLACE
		450		101	3	SLOW RATE
		500-1500		109	3	BUMP PLUG
	6:00:00 AM					FLOATS HELD

ALLIED
OIL & GAS SERVICES, LLC

Cement Job Summary

Job Number:	**MLK150815030**	Job Purpose	**01 Surface**		
Customer:	**INDIAN OIL COMPANY**			Date:	**8/15/2015**
Well Name:	**JEROME**		Number: **# 1**	API/UWI:	
County:	**BARBER**	City:	**VIC MEDICINE LODGE**	State:	**KANSAS**
Cust. Rep:	**ANTHONY FARRAR**	Phone:		Rig Phone:	
Distance	**3 miles (one way)**		Supervisor	**Jake Heard**	

Employees:	***Emp. ID:***	***Employees:***	***Emp. ID:***
JAKE HEARD	#N/A		
JUSTIN BOWER	#N/A		
JOE HALCOMB	0		

Equipment:	
CEMENTERS PICK-UP 717	
PUMP TRUCK 894-545	
BULK TRUCK 949-741	

Materials - Pumping Schedule

STAGE #1

Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Spacer 1	FRESH WATER	5	8.34	n/a	n/a
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Lead 1	CLASS A COMMON	225	14.90	1.33	6.20
Fluid Name	**Description**	**Rqstd Qty**	**Density**	**Yield**	**Water (gal/sk)**
Disp. 1	Displacement	15.73	8.33	n/a	n/a

Slurry: Lead 1		**Slurry Name:** CLASS A COMMON					
Quantity:	225 sacks		**Blend Vol:**	237.57 cu.ft.		**Blend Weight:**	21784.5 lbs
Material	Description			Conc. (lb/sk)	Determined by	Load Volume	UOM
CCAC	CLASS A COMMON			94	% Base Materia	21150.0	lbm
CA-100	CALCIUM CHLORIDE, PELLETS OR FLAKE			2.82	% BWOC	634.5	lbm
Water	Mixing Water			6.20	gal/sk	1395	gal

Job Number:	**MLK150815030**	Job Purpose	**01 Surface**		
Customer:	**INDIAN OIL COMPANY**			Date:	8/15/2015
Well Name:	**JEROME**		Number: **# 1**	API/UWI:	
County:	**BARBER**	City:	**VIC MEDICINE LODGE**	State:	**KANSAS**
Cust. Rep:	**ANTHONY FARRAR**	Phone:		Rig Phone:	**0**
Distance	**3 miles (one way)**		Supervisor	**Jake Heard**	

DATE	**TIME**	**PRESSURE - (PSI)**		**FLUID PUMPED DATA**		**COMMENTS**
	AM/PM	**CASING**	**ANNULUS**	**VOLUME**	**RATE (BPM)**	
8/15/2015	2:45:00 AM					ARRIVE ON LOCATION
						SAFETY MEETING
						RIG UP
						SAFETY MEETING
						BREAK CIRCULATION W RIG
	4:00:00 AM	1500				PRESSURE TEST
	4:05:00 AM	200		5	4	PUMP SPACER
	4:07:00 AM	250		53.29	4.5	MIX AND PUMP CEMENT
	4:20:00 AM	90-150		15.73	2-4.5	DISPLACE
						STOP
	4:30:00 AM					SHUT IN WELL

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

January 13, 2016

Anthony Farrar
Indian Oil Co., Inc.
PO BOX 209
2507 SE US 160 HWY
MEDICINE LODGE, KS 67104-0209

Re: ACO-1
API 15-007-24282-00-00
Jerome 1
NW/4 Sec.21-32S-12W
Barber County, Kansas

Dear Anthony Farrar:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 08/14/2015 and the ACO-1 was received on January 13, 2016 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department

DRILL STEM TEST REPORT

Indian Oil Co., Inc.

2507 SE US 160 Hwy.
Medicine Lodge, KS 67104

ATTN: Aaron Young

21-32s-12w Barber Co., KS

Jerome 1

Job Ticket: 57884 **DST#: 1**

Test Start: 2015.08.19 @ 08:13:22

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 09:52:07
Time Test Ended: 15:37:07

Test Type: Conventional Bottom Hole (Initial)
Tester: Ryan Reynolds
Unit No: 68

Interval: 4361.00 ft (KB) To 4435.00 ft (KB) (TVD)
Total Depth: 4435.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

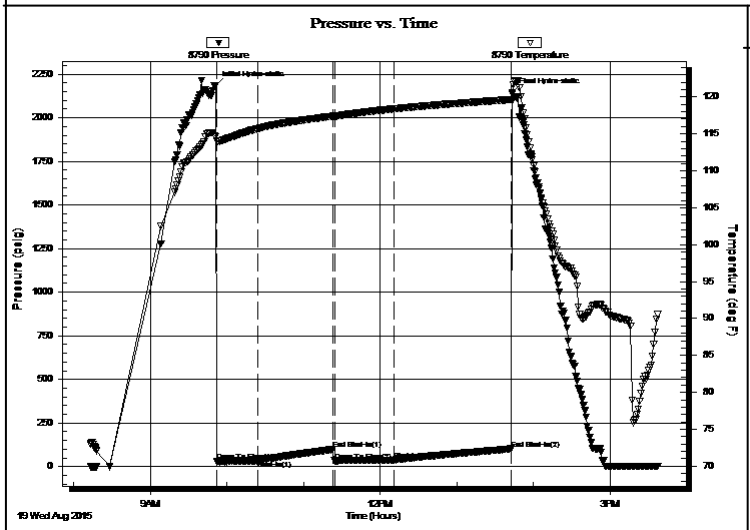
Reference Elevations: 1584.00 ft (KB)
1572.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8790

Press@RunDepth: 37.79 psig @ 4368.00 ft (KB)
Start Date: 2015.08.19 End Date: 2015.08.19
Start Time: 08:13:27 End Time: 15:37:06

Capacity: 8000.00 psig
Last Calib.: 2015.08.19
Time On Btm: 2015.08.19 @ 09:51:07
Time Off Btm: 2015.08.19 @ 13:43:07

TEST COMMENT: IF: Fair blow . surf. - 7"
ISI: No blow .
FF: Fair blow . 3"- 5".
FSI: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2183.10	114.67	Initial Hydro-static
1	28.67	114.06	Open To Flow (1)
33	33.58	115.70	Shut-In(1)
93	98.62	117.40	End Shut-In(1)
93	32.90	117.39	Open To Flow (2)
140	37.79	118.39	Shut-In(2)
232	101.65	119.65	End Shut-In(2)
232	2142.90	120.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SLI OWCM 2%o, 1%w, 97%m	0.15
0.00	360' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Indian Oil Co., Inc.

2507 SE US 160 Hwy.
Medicine Lodge, KS 67104

ATTN: Aaron Young

21-32s-12w Barber Co., KS

Jerome 1

Job Ticket: 57884 **DST#: 1**

Test Start: 2015.08.19 @ 08:13:22

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	5000 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	0.08 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SLI OWCM 2%o, 1%w, 97%m	0.148
0.00	360' GIP	0.000

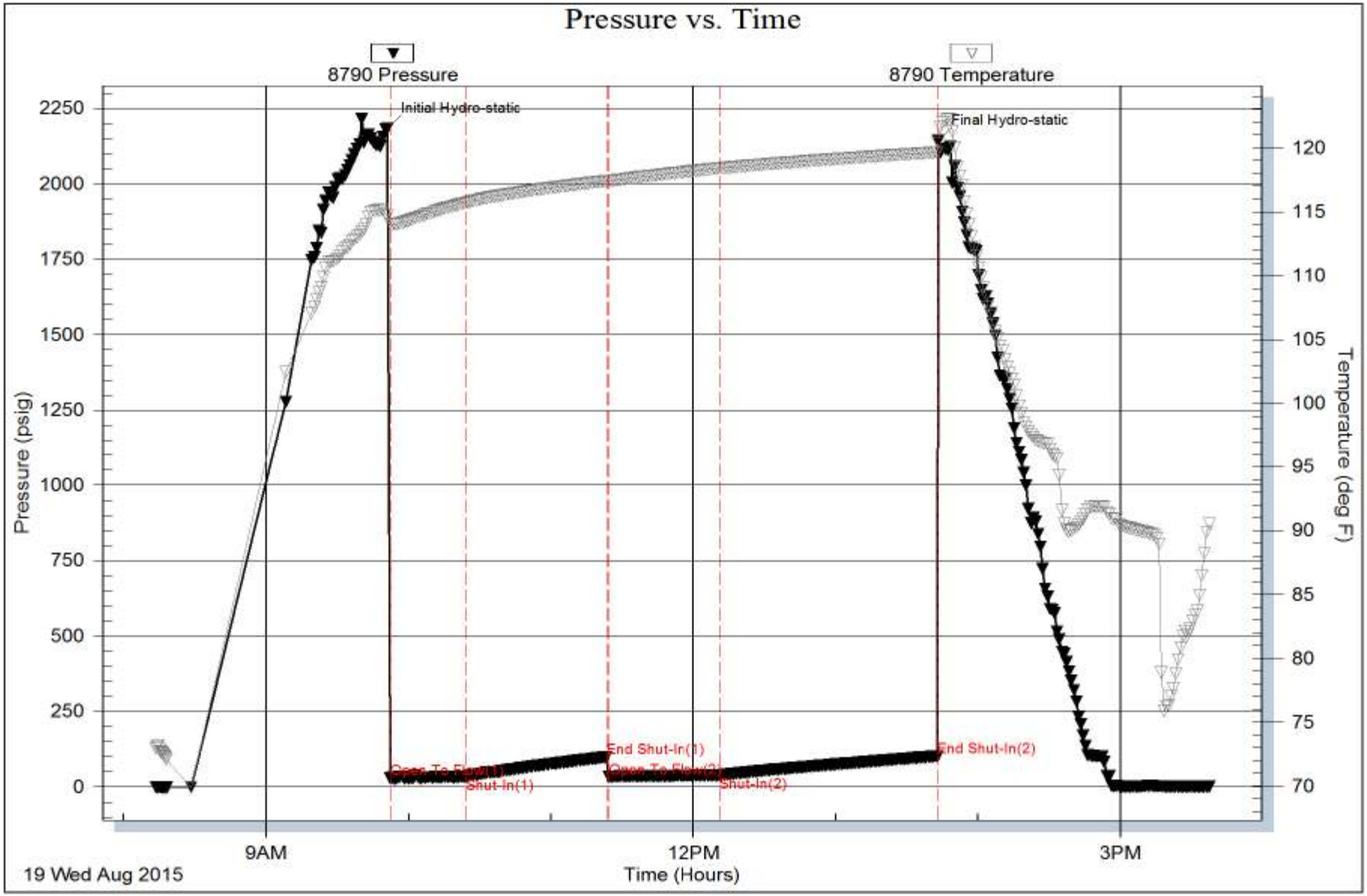
Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8790 | Indian Oil Co., Inc. | Jerome 1 | DST Test Number: 1



Trilobite Testing, Inc | Ref. No: 57884 | Printed: 2015.08.19 @ 16:25:27