

Confidentiality Requested:

Yes No

# Kansas Corporation Commission Oil & Gas Conservation Division

1186432

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 #			API No. 15		
Name:			Spot Description:		
Address 1:			Sec	TwpS. R	East West
Address 2:			F6	eet from North /	South Line of Section
City:	State: Z	ip:+	Fe	eet from East /	West Line of Section
Contact Person:			Footages Calculated from I	Nearest Outside Section C	Corner:
Phone: ()			□ NE □ NW	V □SE □SW	
CONTRACTOR: License #			GPS Location: Lat:	, Long: _	
Name:				(e.g. xx.xxxxx)	(e.gxxx.xxxxx)
Wellsite Geologist:			Datum: NAD27	NAD83 WGS84	
Purchaser:			County:		
Designate Type of Completion:			Lease Name:	W	/ell #:
	e-Entry	Workover	Field Name:		
	_		Producing Formation:		
☐ Oil ☐ WSW ☐ D&A	☐ WSW ☐ SWD ☐ D&A ☐ ENHR ☐ GSW	☐ SIGW☐ SIGW☐ Temp. Abd.	Elevation: Ground:	Kelly Bushing:	:
			Total Vertical Depth:	Plug Back Total C	Depth:
CM (Coal Bed Methane)	dow	Temp. Abd.	Amount of Surface Pipe Se	et and Cemented at:	Feet
☐ Cathodic ☐ Other (Co	ore, Expl., etc.):		Multiple Stage Cementing	Collar Used? Yes	No
If Workover/Re-entry: Old Well I			If yes, show depth set:		Feet
Operator:			If Alternate II completion, c	cement circulated from:	
Well Name:			feet depth to:	w/	sx cmt.
Original Comp. Date:					
Deepening Re-perf	•	NHR Conv. to SWD	Drilling Fluid Managemer	nt Plan	
☐ Plug Back	Conv. to G		(Data must be collected from the		
Commingled	Pormit #:		Chloride content:	ppm Fluid volume	e: bbls
Dual Completion			Dewatering method used: _		
SWD			Location of fluid disposal if	hauled offsite	
☐ ENHR			· ·		
GSW	Permit #:		Operator Name:		
_ <del>_</del>			Lease Name:	License #:_	
Spud Date or Date R	eached TD	Completion Date or	QuarterSec	TwpS. R	East _ West
Recompletion Date		Recompletion Date	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:						

Page Two



Operator Name:			L	ease Name: _			Well #:	
Sec Twp	S. R	East We	est C	County:				
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres	sures, whether sh	ut-in pressur	e reached stati	c level, hydrosta	tic pressures, bott		
Final Radioactivity Lo files must be submitted					gs must be ema	iled to kcc-well-log	gs@kcc.ks.go	. Digital electronic log
Drill Stem Tests Taker (Attach Additional		Yes	No	L		n (Top), Depth an		Sample
Samples Sent to Geo	logical Survey	Yes	No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes Yes	No No					
List All E. Logs Run:								
		(	CASING REC	ORD Ne	w Used			
		· ·		ıctor, surface, inte	ermediate, producti		T	
Purpose of String	Size Hole Drilled	Size Casin Set (In O.D		Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADD	ITIONAL CEN	MENTING / SQL	JEEZE RECORD			
Purpose:	Depth Top Bottom	Type of Cem	ent #	# Sacks Used Type and Percent Additives				
Perforate Protect Casing	100 20111111							
Plug Back TD Plug Off Zone								
1 lag on zono								
Did you perform a hydrau	ulic fracturing treatment	on this well?			Yes	No (If No, ski)	o questions 2 ar	nd 3)
Does the volume of the to		•				_	o question 3)	(" 100 ")
Was the hydraulic fractur	ing treatment information	on submitted to the c	hemical disclo	sure registry?	Yes	No (If No, fill o	out Page Three	of the ACO-1)
Shots Per Foot		ION RECORD - Bri Footage of Each Int			Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)  Depth			
	, ,				,		,	
TUBING RECORD:	Size:	Set At:	Pa	acker At:	Liner Run:			
						Yes No		
Date of First, Resumed	Production, SWD or Ef		cing Method: owing	Pumping	Gas Lift C	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls. G	as Mcf	Wate	er Bl	ols. G	ias-Oil Ratio	Gravity
DIODOCITI	ON OF CAS:		, 4 CT - 1		TION:		DRODUCTIO	AN INTEDVAL.
Vented Solo	ON OF GAS:  Used on Lease	Open Ho		IOD OF COMPLE $\Box$		nmingled	PHODUCIIC	ON INTERVAL:
	bmit ACO-18.)	Other (S	necify)	(Submit		mit ACO-4)		



259662

40026 TICKET NUMBER LOCATION Ochlay

	FOREMAN FOREMAN
PO Box 884, Chanute, KS 66 20	FIELD TICKET & TREATMENT REPORT
620-431-9210 or 800-467-8678	THE THE REPORT
2-4 401-2210 OI 000-407-86 MB	CERELLE

		FOREMAN Miles Shaw							
PO Box 884,	Chanute, KS 66	1720 FIELD HUNEL & IRLATMENT DEDORT							
DATE	or 800-467-867	CEMENT							
- Tomas City		WE	LL NAME & NUM	IBER	SECTION	TOWNSHIP	RANGE	COUNTY	
6-15-13 CUSTOMER	3282	Gdle	#1-8		8	20	182		-
CUSTOMER	C 03 (	/	,	Steckhanes			100	Reuls	
MAILING ADD	RESS Pecif	19ins		18W	TRUCK #	DRIVER	TRUCK#	DRIVER	$\exists$
		3		Enstinder	405	JAMY			
CITY		STATE	7/0 0005	122591020	460	Jugani			$\neg$
			ZIP CODE		5297129	Miles P			$\dashv$
JOB TYPE 2	Stage	1	7						$\neg$
CASING DEPT		HOLE SIZE_	778	HOLE DEPTH	3500	CASING SIZE &	WEIGHT 5%	15.57	
SLURRY WEIG		DRILL PIPE	142/19	_TUBING			OTHER DUR		
DISPLACEMEN		SLURRY VOL		WATER gal/si	<u> </u>	CEMENT LEFT in	CASING 2	2.61	
REMARKS:	11/1	DISPLACEMEN	NT PSINCY GO		12/00	RATE			
an Joints	745	Fing and		en Wh	12 ocillis	ng Flort	equipment	- Centraliz	5
21411	Run (as	1,8,10,1	7,8,10,12,78 boskels on Jainly 3,13, 49 DU tent on tox of 49						
2066/5	11	ins to be them circulate casing thr. pum Shisereto Schalmust							
- 1	lug disoloro	1 50 bbls mud 35 bbs rate at the swas, I Apply land the 13curs to Stage of the Casing 3 hrs. frame 20 gal Mud Hush 566 beaute							
	dar open to								
m.4 29									
Plug dispi	aced 346615								
Rathole	1 A) JE ) U	are with	USIPS. lef	f Alus land	1 Ginel (listed	tro/ @ 2/0	,	1305/15	
					1000 1	/ -			
ACCOUNT	QUANITY	OF LINITS	DEC			of Crew			
5401 C		514113			SERVICES or PRO	DUCT	UNIT PRICE	TOTAL	
5406	/		PUMP CHARGE				317500	3/7500	1
	31		MILEAGE				5,25	393.75	=
5407	22,8	o tons	ton Mit	eage del	ivery		1.75	3000.37	1
1/26		7.55hs	000		,		23.70	4/47.50	1
1131		20	66/4000	2 (pmen	+		15.86	5075.20	-
11/0 A		75#	Viols Teil				156	490,00	1
118B	220	2	Bentunt	+90/				594.27	1
1107	20	tt.	Flospal				2,97	237.60	1
11446	100	gal	Mud Flus	sh			100	1000.00	1
1142A	1	_	KI				1.00	82,20	1
4104	9		5/1 (01	to Besto	ts 41		290.00	070 00	-
4130			5% "Con. +	rulizers	is/		6100	870, 00 549, 00	-
1159	/		5%" Flast	Ch. Ar	1. 1.1		(02)	37%	-

4277A 4314 9454 25602,20

AUTHORIZTION

Ravin 3737

TITLE



SALES TAX **ESTIMATED** TOTAL

DATE

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office and conditions of service on the back of this form are in effect for services identified on this form.

# Global Cementing LLC dba SOS LLC

18048 I-70 Road Russell, KS 67665



Date	Invoice #
6/7/2013	1036

Bill To

GREAT PLAINS ENERGY
6121 S 58TH ST
STE B
LINCOLN,NE 68516

P.O. No.	Terms	Project
ODEL #1-8	Net 30	

Quantity	Description	Rate	Amount
7 4	COMMON CALCIUM GEL HANDLING BULK MILEAGE	15.50 53.00 26.00 2.10 744.00	371.00T 104.00T 390.60
100	TRI-PLEX PUMP CHARGE FOR SURFACE PUMP TRUCK MILEAGE LMV DISCOUNT 15% Sales Tax	1,050.00 6.50 2.00 -963.50 6.30%	1,050.00 650.00 200.00

se remit to above address.

 Phone #
 Fax #
 E-mail

 785-324-2658
 785-445-3526
 globalcementingllc@gmail.com

Total

\$5,459.41





Great Plains Energy, Inc

6121 S. 58th St. Suite B

ATTN: Mike Madcharo

Lincoln, NE. 68516

8-7s-18w-Rooks

Odle #1-8

Job Ticket: 50430 DST#:1

Test Start: 2013.06.10 @ 19:11:45

## **GENERAL INFORMATION:**

Formation: Oread

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 20:44:45 Time Test Ended: 02:52:15

Interval: 3068.00 ft (KB) To 3115.00 ft (KB) (TVD)

Total Depth: 3115.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Jason McLemore

Unit No: 54

Reference Elevations:

1945.00 ft (KB)

1937.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8789 Inside

Press@RunDepth: 105.64 psig @ 3104.00 ft (KB)

Start Date: 2013.06.10 Start Time: 19:11:47 End Date: End Time: 2013.06.11 02:52:15 Capacity: Last Calib.: 8000.00 psig

2013.06.11

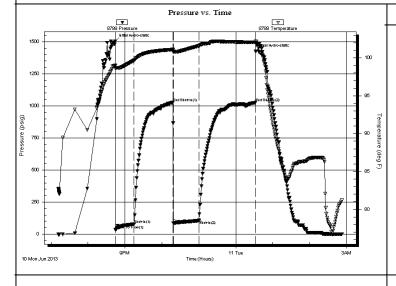
Time On Btm: Time Off Btm: 2013.06.10 @ 20:44:00 2013.06.11 @ 00:32:15

TEST COMMENT: IFP-Fair Blow, Built to 8-1/2"

ISI-Dead

FFP-Weak Blow, Built to 3"

FSI-Dead



# PRESSURE SUMMARY

Time	Pressure	ıemp	Annotation
(Min.)	(psig)	(deg F)	
0	1502.34	98.97	Initial Hydro-static
1	33.84	98.59	Open To Flow (1)
31	78.27	99.66	Shut-In(1)
94	1027.15	101.08	End Shut-In(1)
95	86.97	100.77	Open To Flow (2)
136	105.64	101.56	Shut-In(2)
228	1027.18	102.02	End Shut-In(2)
229	1423.77	102.19	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
175.00	VSOCMW-3%O-87%W-10%M	1.36
25.00	Free Oil	0.35

#### Gas Rates

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

Trilobite Testing, Inc Ref. No: 50430 Printed: 2013.06.11 @ 15:03:31



**FLUID SUMMARY** 

Great Plains Energy, Inc

8-7s-18w-Rooks

6121 S. 58th St. Suite B Lincoln, NE. 68516 Odle #1-8

Job Ticket: 50430

DST#:1

ATTN: Mike Madcharo

Test Start: 2013.06.10 @ 19:11:45

### **Mud and Cushion Information**

Mud Type:Gel ChemCushion Type:Oil A Pl:26 deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:36000 ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:55.00 sec/qtCushion Volume:bbl

Water Loss: 7.99 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 2200.00 ppm Filter Cake: inches

# **Recovery Information**

## Recovery Table

Length ft	Description	Volume bbl
175.00	VSOCMW-3%O-87%W-10%M	1.362
25.00	Free Oil	0.351

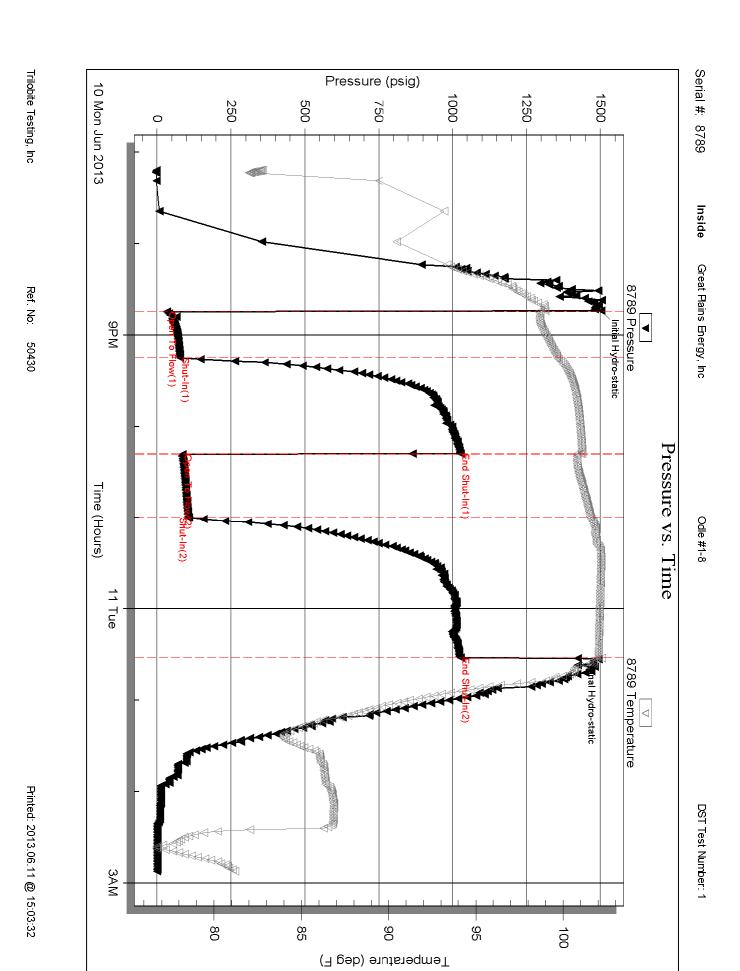
Total Length: 200.00 ft Total Volume: 1.713 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 50430 Printed: 2013.06.11 @ 15:03:32





Great Plains Energy, Inc

6121 S. 58th St.

8-7s-18w-Rooks

Odle #1-8

Tester:

Reference Elevations:

Suite B Job Ticket: 50431 Lincoln, NE. 68516

ATTN: Mike Madcharo Test Start: 2013.06.11 @ 13:32:27

## GENERAL INFORMATION:

Formation: A-C

Interval:

Deviated: 0.00 ft (KB) Test Type: Conventional Bottom Hole (Reset) No Whipstock:

Time Tool Opened: 15:37:27 Time Test Ended: 21:42:57

Unit No: 54

Total Depth: 3200.00 ft (KB) (TVD)

7.80 inches Hole Condition: Good Hole Diameter:

KB to GR/CF: 8.00 ft

Jason McLemore

DST#: 2

1945.00 ft (KB)

1937.00 ft (CF)

Serial #: 8789 Inside

Press@RunDepth: 3177.00 ft (KB) 141.36 psig @ Capacity: 8000.00 psig

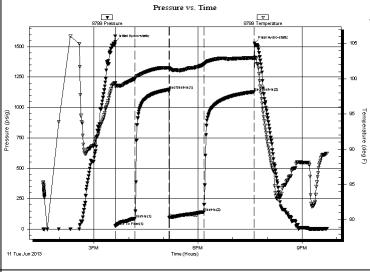
Start Date: 2013.06.11 End Date: 2013.06.11 Last Calib.: 2013.06.11 Start Time: 13:32:29 End Time: 2013.06.11 @ 15:37:12 21:42:57 Time On Btm: Time Off Btm: 2013.06.11 @ 19:37:42

TEST COMMENT: IFP-Fair Blow, BOB in 14 Min.

ISI-Blow back Built to 1/2" FFP-Fair Blow, BOB in 16 Min.

3140.00 ft (KB) To 3200.00 ft (KB) (TVD)

FSI-Dead



	T INCOOKE OUIVIANT							
Ī	Time	Pressure	Temp	Annotation				
	(Min.)	(psig)	(deg F)					
	0	1540.04	99.41	Initial Hydro-static				
	1	25.04	98.88	Open To Flow (1)				
	34	86.46	100.00	Shut-In(1)				
7	93	1147.00	101.54	End Shut-In(1)				
Temperature	93	92.79	101.33	Open To Flow (2)				
rature	153	141.36	102.03	Shut-In(2)				
(dea	240	1127.94	102.90	End Shut-In(2)				
פ	241	1526.83	102.99	Final Hydro-static				

PRESSURE SUMMARY

#### Recovery

Length (ft)	Description	Volume (bbl)
170.00	HOCM-30%O-70%M	1.29
140.00	Free Oil	1.96
0.00	240' Gas In Pipe	0.00
* Recovery from mult	tiple tests	

Gas Rat	es	
Choka (inahaa)	Drocoure (poig)	Coo Boto (Mof/d)

Trilobite Testing, Inc. Ref. No: 50431 Printed: 2013.06.12 @ 08:02:04



**FLUID SUMMARY** 

ppm

Great Plains Energy, Inc

8-7s-18w-Rooks

6121 S. 58th St.

Odle #1-8

Suite B

Job Ticket: 50431

DST#: 2

Lincoln, NE. 68516 ATTN: Mike Madcharo

Test Start: 2013.06.11 @ 13:32:27

### **Mud and Cushion Information**

Mud Type: Gel Chem Cushion Type: Oil API: 36 deg API Water Salinity:

Mud Weight: Cushion Length: 9.00 lb/gal ft Viscosity: 55.00 sec/qt Cushion Volume: bbl

Water Loss: 7.98 in<sup>3</sup> Gas Cushion Type:

Resistivity: Gas Cushion Pressure: ohm.m psig

Salinity: 2200.00 ppm Filter Cake: inches

# **Recovery Information**

## Recovery Table

Length ft	Description	Volume bbl
170.00	HOCM-30%O-70%M	1.292
140.00	Free Oil	1.964
0.00	240' Gas In Pipe	0.000

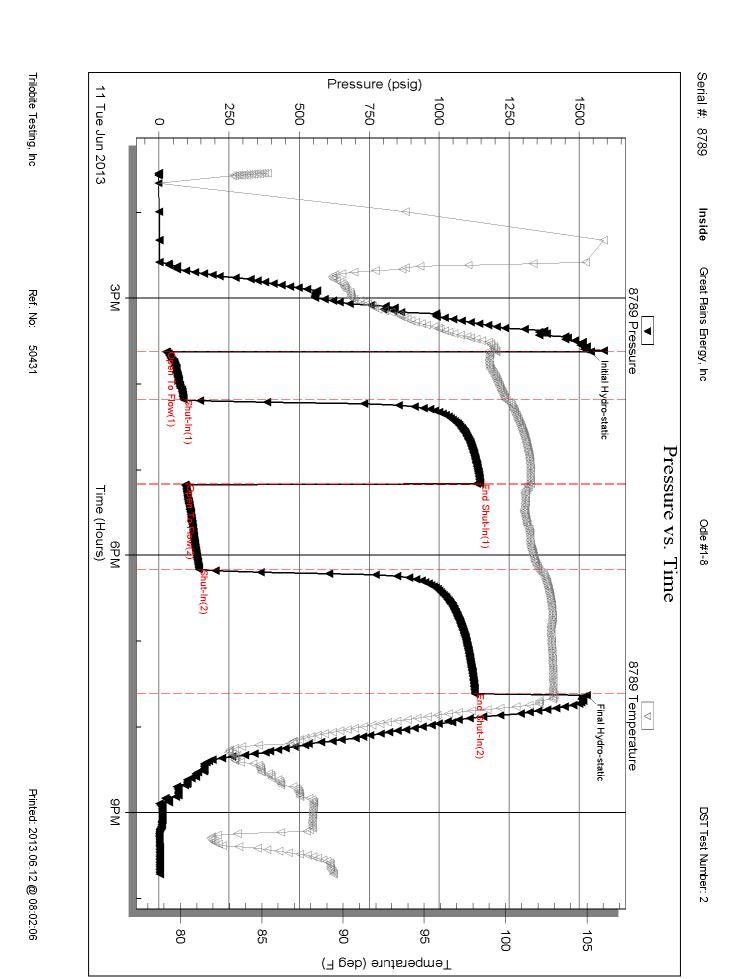
Total Length: 310.00 ft Total Volume: 3.256 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Location: Laboratory Name:

Recovery Comments:

Printed: 2013.06.12 @ 08:02:05 Trilobite Testing, Inc Ref. No: 50431





Prepared For: Great Plains Energy, Inc

6121 S. 58th St. Suite B Lincoln, NE 68516

ATTN: Mike Madcharo

Odle #1-8

8-7s-18w Rooks,KS

Start Date: 2013.06.12 @ 07:02:52

End Date: 2013.06.12 @ 17:36:07

Job Ticket #: 50432 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



Great Plains Energy, Inc

8-7s-18w Rooks, KS

6121 S. 58th St. Suite B Lincoln, NE 68516

Odle #1-8

Job Ticket: 50432

DST#: 3

ATTN: Mike Madcharo

Test Start: 2013.06.12 @ 07:02:52

# GENERAL INFORMATION:

Time Tool Opened: 09:12:22

Time Test Ended: 17:36:07

Formation:

Interval:

Total Depth:

D-G

Deviated:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester:

Jason McLemore

Unit No:

54

Reference Elevations:

1945.00 ft (KB)

1937.00 ft (CF)

3260.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Good

3202.00 ft (KB) To 3260.00 ft (KB) (TVD)

KB to GR/CF:

8.00 ft

Serial #: 8789

Press@RunDepth:

Inside

477.83 psig @

3237.00 ft (KB)

2013.06.12

Capacity:

8000.00 psig

Start Date: Start Time:

2013.06.12 07:02:54 End Date: End Time:

17:36:07

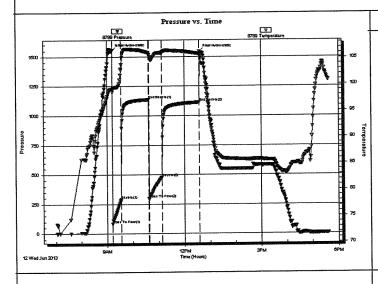
Last Calib.: Time On Btm: 2013.06.12

Time Off Btm:

2013.06.12 @ 09:11:52 2013.06.12 @ 12:35:37

TEST COMMENT: IFP-Strong, BOB in 1 Min.

ISI-Blow back BOB in 30 Min. FFP-Strong, BOB in 2 Min. FSI-Blow back Built to 1"



# PRESSURE SUMMARY Pressure Temp Annotation

HIII	riessuie	Temp	Alliotation
(Min.)	(psig)	(deg F)	
0	1552.60	99.02	Initial Hydro-static
1	83.55	98.45	Open To Flow (1)
21	290.37	102.87	Shut-In(1)
85	1136.57	105.97	End Shut-In(1)
85	295.81	105.55	Open To Flow (2)
116	477.83	105.84	Shut-In(2)
203	1113.31	105.73	End Shut-In(2)
204	1544.13	105.61	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)		
50.00	MCO-60%O-40%M	0.25		
1300.00	Free Oil	17.60		
0.00	570' Gas In Pipe	0.00		
* Recovery from multiple tests				

### Gas Rates

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

Trilobite Testing, Inc

Ref. No: 50432

Printed: 2013.06.17 @ 13:27:43



Great Plains Energy, Inc.

8-7s-18w Rooks, KS

6121 S. 58th St. Suite B Lincoln, NE 68516

Odle #1-8

Job Ticket: 50432

DST#: 3

TOOL DIAGRAM

ATTN: Mike Madcharo

Test Start: 2013.06.12 @ 07:02:52

Tool Information

Drill Pipe: Heavy Wt. Pipe: Length: Drill Collar:

Length: 3074.00 ft Diameter: Length:

0.00 ft Diameter: 120.00 ft Diameter:

3.80 inches Volume: 2.70 inches Volume: 2.25 inches Volume:

Total Volume:

43.12 bbl 0.00 bbl 0.59 bbl

43.71 bbl

Tool Weight: Weight set on Packer: 25000.00 lb

2000.00 lb

Weight to Pull Loose: 40000.00 lb

Tool Chased

String Weight: Initial 35000.00 lb

Final 38000.00 lb

Drill Pipe Above KB: 20.00 ft Depth to Top Packer: 3202.00 ft

Depth to Bottom Packer: Interval between Packers: 58.00 ft Tool Length:

86.00 ft

2 Diameter:

ft

6.75 inches

Tool Comments:

Number of Packers:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3175.00	Accum. Lenguis	
Shut In Tool	5.00			3175.00		
Hydraulic tool	5.00			3185.00		
Jars	5.00			3190.00		
Safety Joint	2.00					
Packer				3192.00		
Packer	5.00			3197.00	28.00	Bottom Of Top Packer
	5.00			3202.00		
Stubb	1.00			3203.00		
Perforations	1.00			3204.00		
Change Over Sub	1.00			3205.00		
Blank Spacing	31.00			3236.00		
Change Over Sub	1.00					
Recorder	0.00	8789	for a Sala	3237.00		
Recorder	0.00		Inside	3237.00		
Perforations		6668	Outside	3237.00		
	20.00			3257.00		
Bullnose	3.00			3260.00	58.00	Bottom Packers & Anchor
Total Tool Length:	86.00					- Strong across & Michol



**FLUID SUMMARY** 

34 deg API

ppm

Great Plains Energy, Inc

8-7s-18w Rooks, KS

6121 S. 58th St. Suite B Lincoln, NE 68516

Odle #1-8 Job Ticket: 50432

DST#: 3

ATTN: Mike Madcharo

Test Start: 2013.06.12 @ 07:02:52

Oil API:

Water Salinity:

# Mud and Cushion Information

Mud Type: Gel Chem Mud Weight:

9.00 lb/gal

Viscosity: Water Loss: Resistivity:

Salinity: Filter Cake: 2100.00 ppm

40.00 sec/qt 7.98 in<sup>3</sup>

ohm.m

inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

bbl

ft

psig

## **Recovery Information**

### Recovery Table

Description	Volume bbl
MCO-60%O-40%M	0.246
Free Oil	17.598
570' Gas In Pipe	0.000
	MCO-60%O-40%M Free Oil

Total Length:

1350.00 ft

Total Volume:

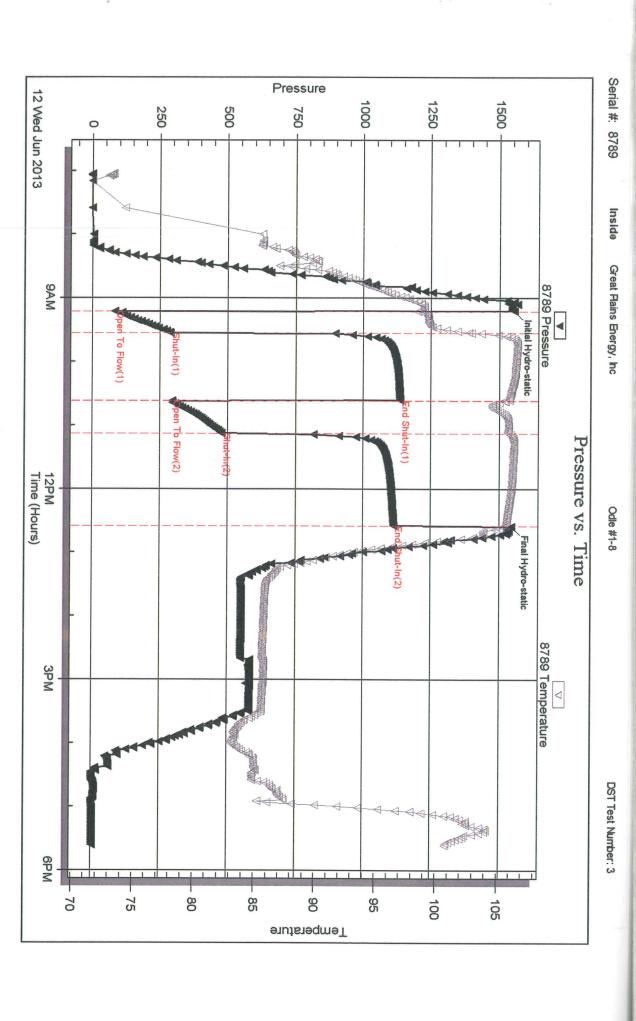
17.844 bbl

Num Fluid Samples: 0 Laboratory Name:

Num Gas Bombs: Laboratory Location:

Serial #:

Recovery Comments:



Trilobite Testing, Inc

Ref. No:

50432

Printed: 2013.06.17 @ 13:27:45



Great Plains Energy, Inc

6121 S. 58th St.

8-7s-18w-Rooks

Odle #1-8

Suite B Job Ticket: 50433 Lincoln, NE. 68516

ATTN: Mike Madcharo Test Start: 2013.06.13 @ 01:56:47

## GENERAL INFORMATION:

Formation: I-J

Interval:

Deviated: 0.00 ft (KB) Test Type: Conventional Bottom Hole (Reset) No Whipstock:

Time Tool Opened: 05:19:17 Time Test Ended: 11:01:32 Tester: Jason McLemore

Unit No: 54

Reference Elevations:

1945.00 ft (KB) 1937.00 ft (CF)

DST#: 4

Total Depth: 3340.00 ft (KB) (TVD)

KB to GR/CF: 8.00 ft

7.80 inches Hole Condition: Good Hole Diameter:

Inside

Serial #: 8789

Press@RunDepth: 3334.00 ft (KB) 49.29 psig @ Capacity: 8000.00 psig

Start Date: 2013.06.13 End Date: 2013.06.13 Last Calib.: 2013.06.13 Start Time: 01:56:49 End Time: 11:01:32 Time On Btm: 2013.06.13 @ 05:18:47 Time Off Btm: 2013.06.13 @ 09:07:17

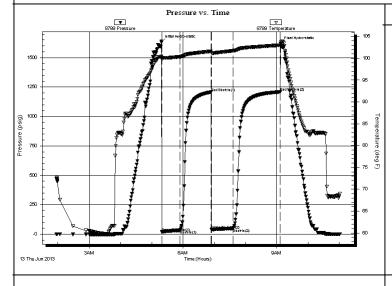
TEST COMMENT: IFP-Weak Blow, Built to 3-1/4"

ISI-Dead

FFP-Weak Blow, Built to 3-1/4"

3299.00 ft (KB) To 3340.00 ft (KB) (TVD)

FSI-Dead



# PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1628.86	100.38	Initial Hydro-static
1	18.21	99.70	Open To Flow (1)
36	33.23	100.37	Shut-In(1)
95	1206.94	101.60	End Shut-In(1)
96	38.19	101.26	Open To Flow (2)
137	49.29	101.70	Shut-In(2)
228	1208.43	103.00	End Shut-In(2)
229	1615.15	103.42	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM-30%O-70%M	0.05
60.00	Free Oil	0.30
* Recovery from mul	tiple tests	

#### Gas Rates

Choke (inc	ches) Pressure (psig)	Gas Rate (Mcf/d)
------------	-----------------------	------------------

Printed: 2013.06.13 @ 11:55:22 Trilobite Testing, Inc. Ref. No: 50433



**FLUID SUMMARY** 

ppm

Great Plains Energy, Inc

8-7s-18w-Rooks

6121 S. 58th St.

Odle #1-8

Suite B

Job Ticket: 50433

DST#: 4

Lincoln, NE. 68516 ATTN: Mike Madcharo

Test Start: 2013.06.13 @ 01:56:47

### **Mud and Cushion Information**

Mud Type: Gel Chem Cushion Type: Oil API: 36 deg API Water Salinity:

Mud Weight: Cushion Length: 9.00 lb/gal ft Viscosity: 55.00 sec/qt Cushion Volume: bbl

Water Loss: 7.99 in<sup>3</sup> Gas Cushion Type:

Resistivity: Gas Cushion Pressure: ohm.m psig

Salinity: 2100.00 ppm Filter Cake: inches

# **Recovery Information**

## Recovery Table

Length ft	Description	Volume bbl
10.00	OCM-30%O-70%M	0.049
60.00	Free Oil	0.295

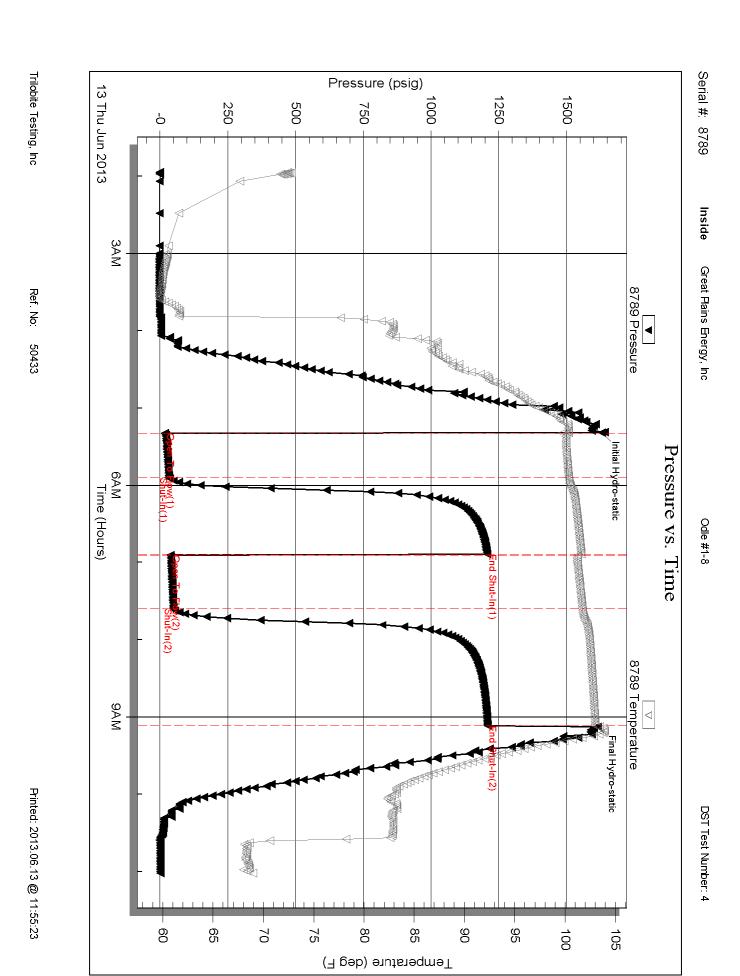
Total Length: 70.00 ft Total Volume: 0.344 bbl

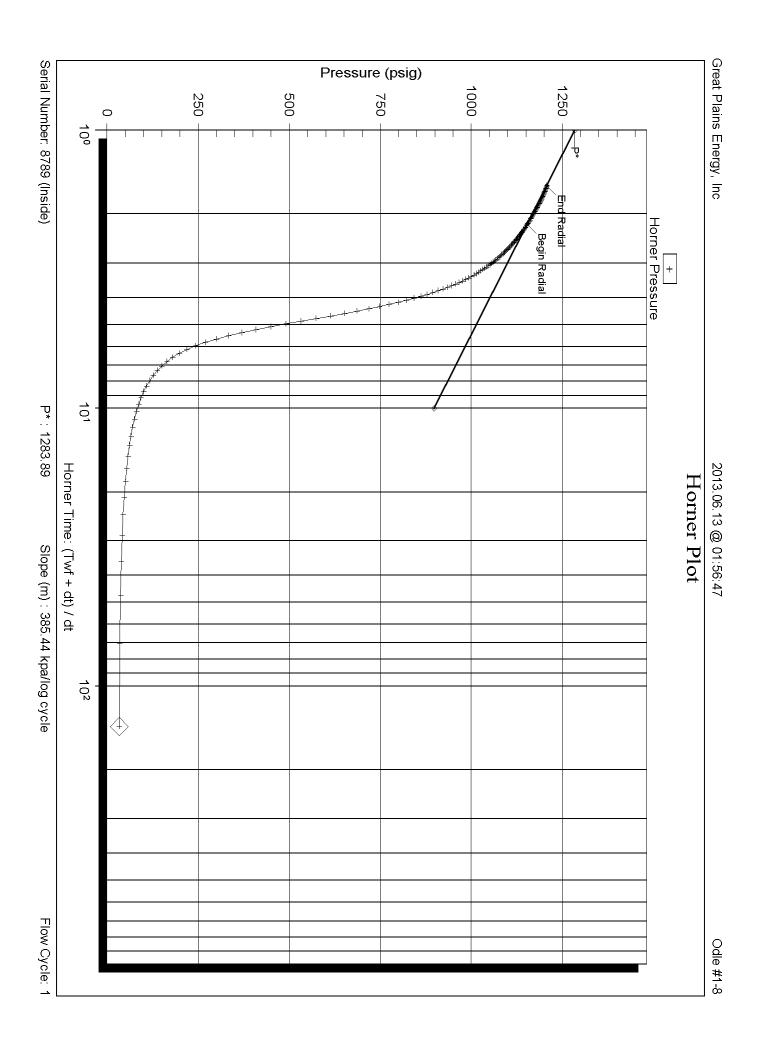
Num Fluid Samples: 0 Num Gas Bombs: Serial #:

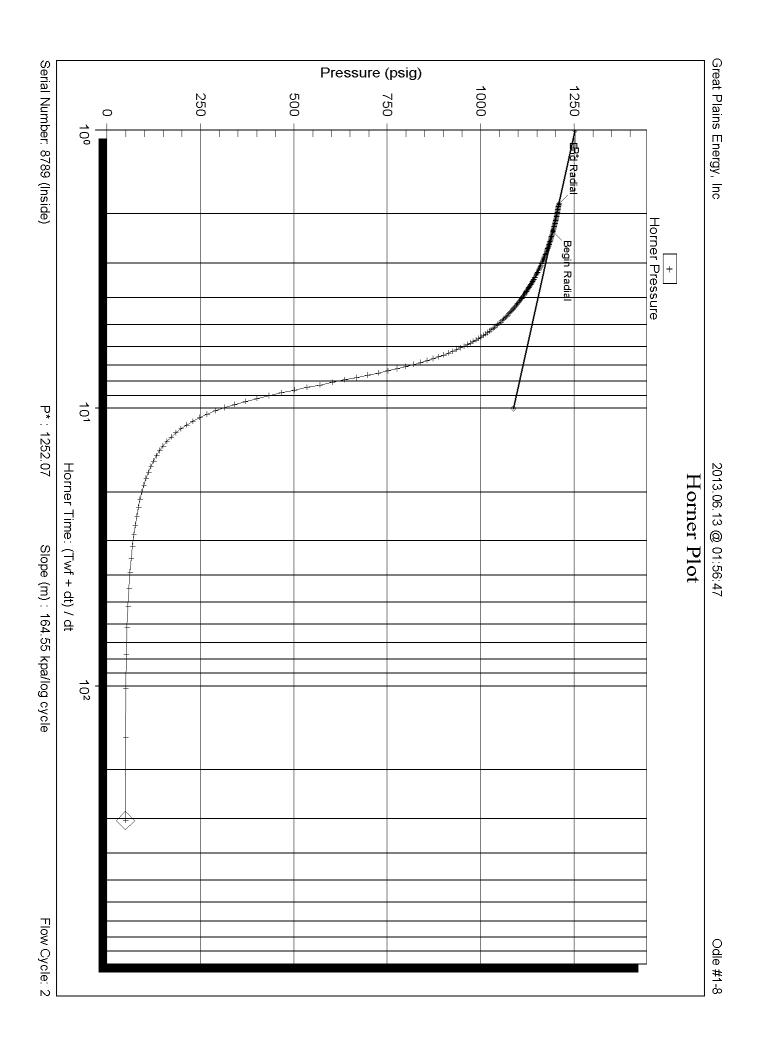
Laboratory Name: Laboratory Location:

Recovery Comments:

Printed: 2013.06.13 @ 11:55:23 Trilobite Testing, Inc Ref. No: 50433







econtinues numeros contratos contratos en esta en el contratos en el contratos en el contratos en el contratos	kan shi ga ka	nd ceeleksidd a cyfair Cosyllwydd yr mae celledd a cyfair (Cosyllwydd a cyfair Cosyllwydd a cyfair (Cosyllwydd Yr cyfair (Cosyllwydd a c	n de de la companya d	reportant of 67% collection and an emphasized of a factorization delay plants are a second and a			2	
ustikajanasaurike sikillista oʻsarisas kulukurad yeri oras ummumasilarda pirilgaligi 554464	GEOLO	IG I C A	L R E	PORT		To come of the company of the compan		оборжания в принципальной в пр
COMPANY Great	Plains En	STOCH STATE OF THE		ELEVATION		silian manga ilau se manga manga ilau se manga ilau se man	) Sionit	• Other physical and the state of the state
LEASE Odle	1-8 ====================================	ngger wisspams trout of shared a referencies to a commission of the state of the shared or the share	norman en sitta antien et en situation de la s	KB 1945 Feet	merolooguadaasioo.		Manager Addition	
FIELD Wilden	+	en vezez a a no no no no no de del del del del del del del del del	egyphyradildaeth (1975-1984) (Spieder Stattler y paramental a the statter (1984) (1985) (1985)	DF.	\$ 2000000000000000000000000000000000000	7 7 7	1 3	OIL SHO
LOCATION SW SE	SW (1650' A	-WL, 480'	F5U)	GL 1937 Feet			1	et un notation de la constanta
SEC 8				Depths Measured From	Madch a 20 June 1		]	unita Matribida Sidemonto
COUNTY Rook				Log KB Drilling KB	100 Jao		<u> </u>	ornoveron (ammuno)
			***************************************	CASING 85/8" to 219 ft	Consideration Co		A §	New Total Participation of the Control of the Contr
CONTRACTOR <u>W</u>				Froduction	Pollowing Nile			Monotovostanoppii(doss
SPUD 7 June 20	0/3 COMP	14 June	W13	FIFOTRICIOSS				nonous exercionamento de la compositiva della co
SAMPLES SAVED	FROM 2800	ofeet TO	TD naskunnin viitaan kan saan en setti serkinin pinnin saan en setti serkinin pinnin saan en saan saan en setti serkinin pinnin saan en setti serkinin saan en setti serkin	Ploneer Energy Sarvices: CND/DIL/MRES/BHCS/Frack	1000	GET -	Sab de S	on control of the con
	DRMATION T	OPS AND	STRUCTUF	RAL POSITION	ws. tile			LITHOLO
FORMATION	SAMPLE	E. LOG	DATUM	8 C 0	180 Show's 1.5 show's	Company of the compan	The state of the s	Sout 1 1 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Anhydrite		1425	+488	+5/9	CH THE		iil v	Modelment to Miss and Table 1
Basel Anhydr.		1457	-955	+ 487	1200		:	
Topeka Heebner	2902 3106	3/03	-1158	-1174	Was excell bst p watton		, , , , , , , , , , , , , , , , , , ,	ionicos de la company de la co
Lansing	3149	3142	-1197	-1214	1 DSS (Wa		Lil g	
Basel KansasCi		9368	-1423	-1437	ya va		e l	v=-5eq866
Penn. Conglomean	e Absent	Absent	2.00	-1517	- 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		10	
Arbuddle	3457	3452	-1507	-1553	casin struc ple fair			
					12 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	目目	E s	MINUTES
					Oroduction casing - High struct - Multiple fair - Encouraging - Favorable eva			S TIME IN MINUT PER FOOT Penetration Decreases
					TELLARORE DE LA CONTROL DE LA		ej ş	
						Worker Hands	`	
			ICE WELLS			12400000		
		_ KFFFKF/\	N.F WELLS			wase.		1 4 0

	OIL SHOWS	Survey (6) 220 ft: 1/2							Change pum p guage		agent and agency and a consideration of the conside	Mud WE: 8.8
le Carb sh Limestone Ool.Lime Charl	SAMPLE DESCRIPTIONS	Samples are lagged	2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	201121 20112 201			1 15, crm. Ibr. gbr, f-cgn wst, dns, tslf, wI most towards.	54, 9. d9. ggn, w/pyrite 101 L5, AA; st. oolew/trglaw. N50 54, 9. rbr 20(tr. pink&y(w	1 1 1 LS, crm. 16 . y, f-ega, das, NSO   W/Minor wt mst, w/pyr.	101010 LS.crm. 4.96, ool. jost in uppar, in uppar, in in can wat below, tralauc. NSO	1:: LS, 49:9 br. 9ng. tan, f-cgn 1:: LS, 49:9 br. 9ng. tan, f-cgn 1:: Wst, scc. 1814, wlocc. tan vfxln 1:: mst, dns tight, occ. chalky. 1:: 0cc. interveds g SH, occ.1818	54, 9¢19 11. 15, tan.wt, fgn mstlwst, wlgen
Sandatone Shale		oom		1450			7800	<u> </u>	£ 2850		2900	
Anhydrite Sait	ING TIME IN MINUTES  of Penetration Decreeses  5." 10." 15." 20." 25."		An. 19 3 11 CE 129 1	Base Annyan Elba (1458	TO SECURITY STATES AND SECURITY OF THE SECURITY	Kecorded					Tooleka 2800	

			11 1 1 15, tan.wt, fgn mst/wst, wlgen	Mud	4 WE: 8.8
2000  2000		ζ	id, gélg 15, go w/wt.crm, fgn w w/minor fs/f. Nso		n na nagaran kan ang ang ang ang ang ang ang ang ang a
3000 (Six and x, 1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		2950	.s, tan.g.wt, vt-fgn mst m-cgn fslf gst. Nso		State de la companya
3000  3000			SH		Andrew Petroles and Petroles an
3000			ž.		voca nagraden voca voca voca voca voca voca voca voca
3000 = 551, 35 e the case 12/18  51, 3 e the case 12/18  51, 3 e the case 12/18  51, 3 e the case 12/18  51, 5 e the case 12/18  51, 6 e the case 12/1		¥.	25 tan-g, m.com f.		
3050  3050			516, 61K, carb.		According to consider a grant and a constant and a
3050  (1) 19 19 19 19 19 19 19 19 19 19 19 19 19		3000	on, gerer, occ	Schlann dimensionel die 18 of Schlan in indentitieri	
2055 7. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10		XX	LS, g.ggn, v.Pgn, dns mst, grades to com.wt mgn wst,		works de
3050			5H, 3; br	See Sistamore is established to be	elandad Shatilika dha shatilik
3050 25.5 cm 18 m 30 m 36 m 18 cm.  2050 25.5 cm 18 p 20 m 35 m 36		·			Angelor centre from the consentation of the co
3050 1155 cry to the difference of the differenc		×	LS, crm. tan.gb, Mc Post; NSO	318	6
37.00 (2.7; amby ability of a gar wst)    Codd 94 rat 54   Codd 96 rat 64   Codd 96 rat 67   Codd 97   Codd	7 60 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3050	= 5 Fron, w/ bk carb. 1 1 LS, crm -tan f-m-c gn pst, 1 1 0cc fs 1f, sl. chky, arad. tp	3至3	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -
3/00   Deads of the ten, ean oale get what    15 g. 18 then, ean oale get what   15 g. 18 then, ean oale get what   16 then to get wheth   16 then to get wheth   18 then to get wheth			Comf-man wat & g m-cgn wat;	£	F: 78/106 FSIP: 1627
1   1   1   1   1   1   1   1   1   1			1 1 1 5cd 5 gg rbr SH	T. 8.1	Fair blow, built to 8/2"  Dead
		な		T 35 (	" Dead " " " " " " " " " " " " " " " " " " "
A LS ten; which the solit. Whisty show (1)  The solit is the solit is a solit is a solit show (1)  Shinks for we coilt. Whisty show (1)  Shinks for we coilt. Whisty show (1)  Shinks for we can, for most, dus, they for was the solit show (1)  Shinks for we can, for we shill show they for was the solit show (1)  Shinks for we can, for we shill show they for way they for was the ship show (1)  Shinks for we can, for we ship ship show (1)  Shinks for we can, for we ship ship ship ship ship ship ship ship		,	totale LS, g. Wt. tan, can colic get w p-t Tar 6. exc. satin, strong cdor.	\$	25' Free Dil (grav 26) 75' Free Dil (grav 26) 75' VSOCMW:
3/60 (2) (1) (1) (2) (2) (1) (1) (1) (2) (2) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2			At 101 WICT, Wt. trust bon, will par SH, rore g		3%0,81%W,10%M 41: 36000 ppm
3150  (B) 18 (100 to 100)  (B)		0-	LS & CT, AA, occ ool'c. Wh spty show		1d Wt: 8.7 5c; 55 WL: 8.0
284, rbr. g. br.  155, wt. tan, fgn wet, dns, tight  155, wt. tan, fgn wet, dns, tight  156, wt. tan, fgn wet, dns, tight  150, wt. tan, fnible coli, gst., color, left, try  150, wt. tan, fnible coli, gst., color, left, try  150, wt. tan, fnible coli, gst., color, left, try  150, wt. tan, fnible coli, gst., color, left, will by man with gst.  150, wt. tan, fnible coli, gst., color, left, will by man with gst.  150, wt. tan, fnible coli, gst., color, left, will by man with gst.  150, wt. tan, fnible coli, gst., color, left, will be man with gst.  150, wt. tan, fnible coli, gst., color, left, will be man with gst.  150, wt. tan, fnible coli, gst., color, left, will be man with gst.  150, wt. tan, fnible coli, gst., color, left, will be man with gst.  150, wt. tan, fnible coli, gst., color, left, will be man with gst.  150, wt. tan, fnible coli, gst., color, left, will be man with gst.  150, wt. tan, fnible coli, gst., color, left, will be man with gst.  150, wt. tan, fnible coli, gst., color, left, will be man with gst.  150, wt. tan, fnible coli, gst., color, left, will be with with will be with gst.  150, wt. tan, fnible coli, gst., color, left, will be with gst., color, left,		cx 3/00	110, 011 54, rbre9, w161K		
SHIP SHIP SHIP SHIP SHIP SHIP SHIP SHIP	27.5		Ls. tan. g. f. mgn wst. wier, wt. tan	Ž.	18.9 18.9
3150  ELS, WE tan, fgn wst, dns, tgh w  NSO  Ale AA.  SH, AA.  SH, AA.  SH, AA.  SH, AA.  SH, AB.  SH,			sH,rbr.g.	Se	000
3/50  2/50			1.5, we tan,		Contact when electrical contact the photographic contact the conta
3150  Story of the stand of the	2	X	1,11		agenigende (s) in Albert Christian (s) in Albert Chris
3150  (C) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	Elog	,	wittan, can ool cast, mod wellcemid, wingr Idr p, frygyp poor show it so il; good etr ficat		17 No. 2 10 - 3200 ft; 30-6045.90 11: 1540/1523
SH, 61k, carb. Usl. by gg rbr  SH, 61k, carb. Usl. by gg rbr  SH, bolk, carb. Usl. by gg rbr  SH, carb. Usl. by mgn with st.  SH, carb. Usl. cart. Usl. by mgn with st.  SH, rbr. graph  SH, rbr. graph  SH, rbr. graph  Co. 3200  Co. 2200		3/50		: E E	0: 25/93 15/P: 1147 P: 86/141 FSIP: 1128
Elogo 3/80.  Elogo 4/80.  Elogo		ð		7. 2. 7	Fair, BoBin Ifmin : Blowback, built to In
Elag 2102 === SH, 61k, carb. 41/2 by gg rbr  Elag 2102 === 15, wh.tan, friable col's 951, odor,  10 10 10 15, wh.tan, friable col's 951, odor,  10 10 10 15, wh.tan, friable col's 951, odor,  11 15 fr. wh.tan, friable col's 951, odor,  11 15 fr. fr. cat; wh. by mgn without proposed  SH frags  SH, rbr. ggn  SH, rbr. ggn  L5, tan it man mlwst Ans. wi.		-@-	MEN VITRO DE ON ROLD HOUSENING I POLICIANIANA ANTIDO POLICIANIA ANTIDO A	F 18 6	1: Blowback, but 17 to 1/4"
Elog 3/84.  10 00 15, whitan, friable colic gst, odor, 10 00 15, whitan, friable colic gst, odor, 10 15, whitan, friable on show, good 11 15, white by man with pst. 11 18/17, colius, st. child, when worked 12 15 16 16 16 16 16 16 16 16 16 16 16 16 16			SH, blk,carb. Ult by	<b>%</b>	6. 510 Fluid, 240 GIF 140' Free 01
5 3200 St. rbr.g.ggn	E 109 3187		5, without friable colic gst, odor, 194 wildy e, pr spty bry show, good str. Ci. cut; All by mgn without sit, the hy, wire worked		(30% 0il, 70% mud)
		<i>M</i>	SH, rbrgggn SH, rbrgggn  1 LS. Lan i.f. man mlwst. Ans.wl.	Ž	14 WE: 9.1

70		======================================	GOODAGA
£ 603 3207	53 5200	==== LS, tan, vt. mgn m wst, dns, w	Mud Wt: 9.1 Visc: 62 WL:8.4
EL0931/6	ر ا	SM. A.A. CON COLC DSt. W. CO. COLC DST. W. CO. COLC DST. CO. CO. CO. CO. CO. CO. CO. CO. CO. CO	BST NO.3 \$202-3260PE, 20.60.50.90 Hyd: 1553/1544 LEP: 04/296, [SIP: 1137
6128	<u> </u>	Shi gigar rest and with the state of the sta	
	ر <u>اد</u> ر داخر	also LS, tan. wt m.cgn pstepools -1-1-1 pst wlgood Isir & pr vay & wlbn bil stn, wk-fr fl. cut.	
Muncie Greek Sh Etca 3257	3250	5H, g. dg. rbr, wlearb. partings	1300' Free oil 50' Mco (60%0) 40%M)
			VISC: 40 WL: 8.0
8678 6073	3300	5H, g, As1P 	
		141 fr sptd bn show, uptodor, 141 fr str fleut; w/wt ca 5H g wfoce rbr	Hyd: 1629/1615 1FP: 18/38 1SIP: 1207 FFP: 33/49 FSIP: 1208
Eres 3316	- (S) 3	The LS, crm, y f-mgn mst wist with pp of good show d bnoil wextst  R. cut, some F.O., oil also obs. on  F. face	151: Dead 151: Dead FF: Weak, built to 3/4"
		9.9n matting	FSI: Dead Recovery: 70' fluid 10' Cree oil 10' CCM
£ 23	C F3	1 LS, com. Ibn, ool Cgst wigd 160, Arstowh  I L bn oil wigood street, wit-man ans tight  I L miwst, trg-bnfsifwst, CT, wt. bn. tan  SH, q. rbr. dq. blk Qarb, occ fsif	BST No.5 3332-3375, 3
64 33 60 M	-0	[ 12] [5,9-19, mgn wst, dns, tight, wildner   10] [6,19-19, mgn wst, dns, tight, wild per   10] [6,19-19, wild will will per to 10, will be on show be only will per to 10, will be shown by only will per to 10, will be shown by only will be sh	1192: 123/34 151P: 1616 15P: 23/34 151P: 967 15: Weak intermittent srf. bl. 151: Dead
		SHIG . rbr.gprpl	FF: Dead FSI: Dead Recovery: 15' VSOCM . Recovery : 16' VSOCM .
	÷.		99% Mud B 3340': Mud WE: 9.2 Usc: 49 WE: 7.2
	3400	101 10 LS, wt. 19. pt., fan wst wyoolt gst 1 101 tr fslf, dns, tight, wy maroon wrg	(3)3386': Mud Wt: 9.2 Visc: 48
	ž	(a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	
		1 15, AA but coarser grained NSO	MudWt: 9.2
Ar buckle	05p2 3		
25%E R73	) )	Dol. Wt. dns, tight, fgn NSO  Dol. AA wlp-f 14 Lugy \$. NSO	Arbuckle nop" @ 3457 A.

)
183
3500
K 70 3507 L 7 0 3507