KANSAS CORPORATION COMMISSION ORIGINAL Form ACO-1 OIL & GAS CONSERVATION DIVISION ORIGINAL Form Must Be Typed

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

1

Operator: License #	API No. 15 - 051-25542-0000
Name: Central Operating, Inc	County: Ellis
Address: 1600 Broadway Suite #1050	SW -SE - SW - Sec. 1 Twp. 15 S. R. 19 ☐ East ✓ West
City/State/Zip: Denver, CO 80202	1040 1020 feet from S N (circle one) Line of Section
Purchaser: NCRA	4700
Operator Contact Person: P.A. Brew	feet from E / (Circle one) Line of Section Footages Calculated from Nearest Outside Section Corner:
Phone: (303) 894-9576	(circle one) NE SE NW (SW)
Contractor: Name: Murfin Drilling Co	Lease Name: Fredd Haas Well #: 1
License: _30606	Field Name: Dechant
Wellsite Geologist: Neal LaFon	Producing Formation: L-KC & Arbuckle
Designate Type of Completion:	Elevation: Ground: 2087' Kelly Bushing: 2092'
New Well Re-Entry Workover	Total Depth: 3685' Plug Back Total Depth:
Oil SWD SIOWTemp. Abd.	Amount of Surface Pipe Set and Cemented at 220' Feet
Gas ENHR SIGW	Multiple Stage Cementing Collar Used? ✓ Yes □ No
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth set 1307.47' Feet
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from N/A 130-7
Operator:	feet depth tow/150sx cmt.
Well Name:	Alt Z -Dig -2/12/09
Original Comp. Date: Original Total Depth:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Deepening Re-perf Conv. to Enhr./SWD	Chloride content 8000 ppm Fluid volume 4000 bbls
Plug Back Plug Back Total Depth	Dewatering method used Allowed to dry
Commingled Docket No.	Location of fluid disposal if hauled offsite:
Dual Completion Docket No	·
Other (SWD or Enhr.?) Docket No	Operator Name:
08-02-06	Lease Name: License No.:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date Recompletion Date	County: Docket No.:
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas 67202, within 120 days of the spud date, recompletion, workover Information of side two of this form will be held confidential for a period of 12 107 for confidentiality in excess of 12 months). One copy of all wireline logs a TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells.	or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. months if requested in writing and submitted with the form (see rule 82-3-nd geologist well report shall be attached with this form. ALL CEMENTING
All requirements of the statutes, rules and regulations promulgated to regulate herein are complete and correct to the best of my knowledge.	e the oil and gas industry have been fully complied with and the statements
Signature: A. Die	KCC Office Use ONLY
Title: President Date: 11-14-06	Letter of Confidentiality Received
Subscribed and sworn to before me this 14th day of March la) If Denied, Yes Date:
20.06	Wireline Log Received RECEIVED
Notary Public: Vlature Derry	Geologist Report Received NOV 2 0 2005
Date Commission Expires: You a 8 aco	NO & O SIND

Operator Name: Ce	ntral Operating, I	nc	Lease	Name:	Fredd Haas		_ Well #: _1	
		_		y: Ellis				
ested, time tool ope emperature, fluid re	en and closed, flowin covery, and flow rate	and base of formations og and shut-in pressures es if gas to surface test, final geological well site	s, whether sl	hut-in pro	essure reached	static level, hydro	static pressu	res, bottom hole
rill Stem Tests Tak		✓ Yes No		⊘ L	og Format	tion (Top), Depth a	and Datum	Sample
amples Sent to Ge	ŕ	Yes No		Nam	e ne Corral		Top 1290'	Datum +802'
ores Taken		☐ Yes 🗸 No		Top			3053'	-961'
ectric Log Run		✓ Yes		Hee			3328'	-1236'
(Submit Copy)				Toro	nto		3354'	-1262'
st All E. Logs Run:				L-K	2		3374'	-1282'
Radiation Gu	ard			Bos	e L-KC		3630'	-1538'
Micro Log				Arbı	ıckle		3672'	-1580'
		CASING Report all strings set	G RECORD t-conductor, su	✓ Nourface, into		ction, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Wei Lbs.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
surface	12 1/4	8 5/8	20	*****	220'	Comm	150	3%CC 2 % Gel
production	7 7/8	5 1/2	14		3672.64'	60/40 poz	425	6% gel 1/4# flocele
		ADDITIONA	V CEMENTI	NC / COI	JEEZE RECORI			
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks		JEEZE NECON	······································	ercent Additive	S
Shots Per Foot		ION RECORD - Bridge Plu			Acid, Fra	acture, Shot, Cement	Squeeze Reco	ard
		Footage of Each Interval Po	eriorated	orated (Amount and Kind of Material Used)			Depth	
	Open Hole Com	ipietion			None			
		775.00					- viterala e l	
AP .								
TUBING RECORD	Size 3/8	Set At 1839.75	Packer A	at .	Liner Run	Yes 🗸 No		
	of Production, SWD or E	1		- ,				
September 7, 2	•		[Flowing	Pumpi	ing 🔲 Gas Lif	t 🗌 Oth	er (Explain)
Estimated Production Per 24 Hours	0il 68	Bbls. Gas	Mcf	Wate	er E	3bls. G	as-Oil Ratio	Gravity
Disposition of Gas	METHOD OF (1,111,111,111	L		Production Inte	rval		
Vented Sold	Used on Lease	✓ Open Hole	_	. 🗀 🛭	tually Comp.	Commingled		DECENT
į romos, be		Other (Spe	cify)					RECEIV

NOV 2 0 2008 KCC WICHITA

ALLIED CEMENTING CO., INC.

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665 SERVICE POINT: 27938

ROSS	DDD, ICI	15715 070								~	
DATE 8 8 06	SEC.	TWP.	RANGE		CALLED OUT		ON LOC	CATION		Sen	JOB FINISH
CREAD LEASE HAAS		,	LOGATION	^ ·		, -	ح. ر	1/ 1	COUN	TY	STATE
	WELL#		LOCATION 🚣	1/70	DNZNO			124	CLU		K\$
PED OR NEW Ci	rcle one)					WI	-~	,	_		
CONTRACTOR	na1 0	B, #8	•		OWNER						
	True	this o	700)	OWNER						
TYPE OF JOB	778	T.D			CEMEN	iTr .					
HOLE SIZE	Z'/3		. <u>- Эво Z.</u> РТН				EDED	300	60%	n 19	GEL_
CASING SIZE .	5/6		PTH		AMOUN	1 OKL		/	α	SEAL	
TUBING SIZE DRILL PIPE			PTH					*	<u> </u>	2000	
TOOL	∆ -√		PTH 130	7		· · · · · · · · · · · · · · · · · · ·	·			-,	
PRES. MAX	15 V		NIMUM		COMMO	N	1	80	@ \	065	1917 00
MEAS. LINE			OE JOINT		POZMIX			12/>		5,80	69600
CEMENT LEFT IN	V CSG	511	OL JOHAI		GEL			15		7년 6	24979
PERFS.	<u> </u>				CHLOR	DE.			-	10 -	
DISPLACEMENT		3/3	4 BBL		ASC				 		
DIST EACEMENT					Flac	•		5#		200	15000
	EQU	JIPMENT							_ ` _ _		- Company of the Comp
PUMP TRUCK	CEMENT	ER _M	rek						-		
# 366	HELPER		PSUL		-						- Control - Cont
BULK TRŮCK									_		
# OXLLEY	DRIVER				_						
BULK TRUCK											
#	DRIVER				- HANDL	ING -	315		@ .	190	5985
					MILEAG		~	7 & 15k	Twi.	\ <u>=</u>	992 25
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15 5K C	MIL				_			SERVI	CL		
10 SK C/	16171.				DEDTH	UE IUI	R				
OPEN TOOL	0.8	SOST C	TRC 10 m	15-1	PUMPT	BUCK	CHAR	GE.			95500
			ALUC CA		FYTRA	FOOT	AGE	OL			
SOSK CEM	- C	719	T LANGE	PULC	MILEA	GE			_ @ _		
CLOSE TOOL	0.13	00 %									
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	1-				4.4.						
CHARGE TO:						*		N _B	•	тоты	95500
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To Allied Cemer	_										
You are hereby											
and furnish cem	enter and	helper to	assist owner o	r							
contractor to do										тотат	
done to satisfact	tion and s	upervisio	n of owner age	nt or						IOIAL	<i></i>
contractor. I have				S ANI	\mathcal{O}						
CONDITIONS"	listed on	the rever	se side.		1AA						
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NUV 2 0 2006

KCC WICHITA

ALLIED CEMENTING CO., INC.

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665 SERVICE POINT:

ROSS	enen, ikili	15/15 0/00								
DATE 8 8 06	SEC.	TWP.	RANGE	g W	CALLED OU	JT	ON LOC	ATION 50Am	JOB START	JOB FINISH
412ENA									COUNTY	STATE
LEASE HAAS	WELL#		LOCATION	ANT	ONTHO	<u>/</u> S	105	21	ELLIS	KS
(Ci) OR (NEW) (Ci	rcle one)					- 0	J ZNT	0		
CONTRACTOR		2.0			OWNE	PD				
CONTRACTOR TYPE OF JOB	Milet	TNO	207	on	OWNE	Z.K.				
HOLE SIZE	7%	T.D		<i>82</i>	- CEME	ENT				
CASING SIZE	5/2			72	_		DERED	150	ASC Z	901:51
TUBING SIZE			ΥН	, _				500	CAL WF	2.7
DRILL PIPE			PTH							
TOOL	<u> </u>		TH /3	807_						
PRES. MAX			NIMUM	1 × 10	_ COMM				_@	
MEAS. LINE			DE JOINT	16.49		IX		,	@	AC 05
CEMENT LEFT IN	N CSG.	16.	49		_ GEL			<u> </u>	@ <u> </u>	4995
PERFS.			89/4 Z	וכיכ		RIDE _	75~			196500
DISPLACEMENT				<u>تح</u> لا	_ ASC _			>	@ <u>7378</u>	7,160
	EQU	JIPMENT			WFT)-7	<i>5</i> ∼	29Pls	@ 100	5000
		,							@	
_	CEMENT	ER	ARK							
	HELPER		AALL						@	
BULK TRUCK	DDILLED	-	. 2						@	
	DRIVER	30	7-25						_ @	
BULK TRUCK #	DRIVER								_ @	
#	DKIVEK			· · · · · · · · · · · · · · · · · · ·		_	153	X 1 / \ 1	<u> </u>	29070
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11/	AND						3.5			21/00
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CHARGE TO:	15.00	201								
									TOTAL	1870
STREET										
CITY	S7	ГАТЕ	ZI	P			DI LIC 9	EL OAT	r ealidmen	ator:
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					5/2	1000				122505
					PAC	icer :	SHOE	1	_ @	1325
						CENT	Sown.	45-20	@	3000
To Allied Cemer	•				ラ-				_@_ 	3/5/2000
You are hereby r							COLLA		@	3500
and furnish ceme										
contractor to do					8				TOTAI	5800
done to satisfact					T				10111	
contractor. I have				KMS AN	TAX -				_	
CONDITIONS"	listed on	tne revers	e side.							
		^			TOTA	L CHA				
		()/	1		DISC	OUNT -			IF PA	ID IN 30 DAYS
•		, V(1 '				- 1	1		0
SIGNATURE	XP 4	J	rih			100	e of	m/-		
SIONALUKE	//~ @	Jul 14	/				<u> </u>	PRINT	ED NAME	
	V	•	'							CEIVED

KCC WICHITA

ALLIED CEMENTING CO., INC.

27960 SERVICE POINT: REMIT TO P.O. BOX 31 Kussell **RUSSELL, KANSAS 67665** CALLED OUT SEC. TWP. RANGE ON LOCATION JOB START JOB FINISH 19 \$:30 Pm LOCATION Antonio LEASE HADS OLD OR NEW (Circle one) CONTRACTOR MOLFIN FOR **OWNER** HOLE SIZE 124 **CEMENT** T.D. CASING SIZE & AMOUNT ORDERED DEPTH 220 160 plo Com 3-2 **TUBING SIZE DEPTH** DRILL PIPE **DEPTH** TOOL **DEPTH** PRES. MAX **MINIMUM** COMMON_ MEAS. LINE POZMIX CEMENT LEFT IN CSG. 13 CHLORIDE 5 **DISPLACEMENT** ASC ____ **EQUIPMENT @** (a) PUMP TRUCK CEMENTER _ B; // Mark HELPER BULK TRÚCK BOBU 6 410 BULK TRUCK # HANDLING___\& MILEAGE _ TOTAL 2835 **REMARKS:** Ransyts of 85 pet e **SERVICE** ent a/ 160 ph DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE @_6 MILEAGE Cent did Cinc @ MANIFOLD _ @ @ CHARGE TO: Central Op. Inc. TOTAL 1025 STREET __ CITY STATE PLUG & FLOAT EQUIPMENT 1-85 2000

To Allied Cementing Co., Inc.

You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

@ @ @ TOTAL 6000

TOTAL CHARGE -

DISCOUNT -— IF PAID IN 30 DAYS

NOV 2 0 2008

KCC WICHITA



Prepared For: Central Operating Inc

1600 Broadway Ste 1050 Denver CO 80202

ATTN: Neal A Lafon

1 15 19 Ellis KS

Fredd Haas #1

Start Date: 2006.08.06 @ 11:11:25

End Date: 2006.08.06 @ 17:57:55

Job Ticket #: 25146 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



Central Operating Inc

Fredd Haas #1

1600 Broadway Ste 1050

1 15 19 Ellis KS

Denver CO 80202

Job Ticket: 25146

DST#: 1

ATTN: Neal A Lafon

Test Start: 2006.08.06 @ 11:11:25

GENERAL INFORMATION:

Time Tool Opened: 13:35:55

Time Test Ended: 17:57:55

Formation:

LKC C

Deviated:

No

Whipstock:

ft (KB)

Tester:

Test Type: Conventional Bottom Hole

Michael Armbrister

Unit No:

31

3386.00 ft (KB) To 3408.00 ft (KB) (TVD)

2090.00 ft (KB)

Interval: Total Depth:

Reference Bevations:

2085.00 ft (CF)

Hole Diameter:

3408.00 ft (KB) (TVD) 7.88 inchesHole Condition: Fair

KB to GR/CF:

5.00 ft

Serial #: 8018 Press@RunDepth:

Inside

73.04 psig @

3388.00 ft (KB)

Capacity:

7000.00 psig

Start Date:

2006.08.06

End Date:

2006.08.06 Last Calib.: 2006.08.06

Start Time:

11:11:30

End Time:

17:57:54

Time On Btm:

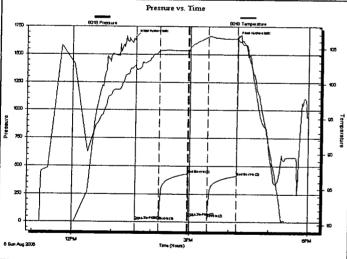
2006.08.06 @ 13:35:25

Time Off Btm:

2006.08.06 @ 16:11:55

TEST COMMENT: IF Blow built to 1/4 " Then slow died to surface blow

ISI No blow FF Surface blow FSI No blow



	PRESSURE SUMMARY									
	Time	Pressure	Temp	Annotation	1					
105	(Min.)	(psig)	(deg F)		ł					
	0	1660.29	102.58	Initial Hydro-static	l					
	1	16.25	101.91	Open To Flow (1)	ı					
100	37	47.54	104.63	Shut-In(1)	l					
	81	429.38	104.70	End Shut-In(1)						
5 g	82	50.55	104.57	Open To Flow (2)	ı					
Temperature	112	73.04	106.66	Shut-In(2)						
ä	156	410.50	106.41	End Shut-In(2)	ı					
	157	1647.85	106.77	Final Hydro-static	Į					
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	†			····						

Recovery

Length (ft)	Description	Volume (bbl)		
80.00	Salt Water 50,000 Chlorides	0.39		

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



TOOL DIAGRAM

Central Operating Inc

1600 Broadway Ste 1050

Denver CO 80202

ATTN: Neal A Lafon

1 15 19 Ellis KS

Fredd Haas #1

Job Ticket: 25146

Test Start: 2006.08.06 @ 11:11:25

Tool Information

Drill Collar:

Drill Pipe: Length: 3237.00 ft Diameter: Heavy Wt. Pipe: Length:

Length:

0.00 ft Diameter: 155.00 ft Diameter: 3.80 inches Volume: 2.25 inches Volume: 2.25 inches Volume:

45.41 bbl 0.00 bbl 0.76 bbl 46.17 bbl Tool Weight: Weight set on Packer: 20000.00 lb

2000.00 lb

DST#: 1

Weight to Pull Loose: 30000.00 ib 0.00 ft

Total Volume:

Tool Chased

String Weight: Initial 30000.00 lb Final 30000.00 lb

Drill Pipe Above KB: Depth to Top Packer:

34.00 ft 3386.00 ft ft

Depth to Bottom Packer: Interval between Packers: 22.00 ft

50.00 ft

2

Diameter:

6.75 inches

Number of Packers: Tool Comments:

Tool Length:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3359.00		
Shut In Tool	5.00			3364.00		
Hydraulic tool	5.00			3369.00		
Jars	5.00			3374.00		
Safety Joint	3.00			3377.00		
Packer	4.00			3381.00	28.00	Bottom Of Top Packer
Packer	5.00			3386.00		
Stubb	1.00			3387.00		
Perforations	1.00			3388.00		
Recorder	0.00	8018	Inside	3388.00		
Perforations	17.00			3405.00		
Recorder	0.00	11084	Outside	3405.00		
Bullnose	3.00			3408.00	22.00	Bottom Packers & Anchor

Total Tool Length:

50.00



FLUID SUMMARY

Central Operating Inc

Fredd Haas #1

1600 Broadway Ste 1050 Denver CO 80202

1 15 19 Ellis KS

Job Ticket: 25146

DST#: 1

ATTN: Neal A Lafon

Test Start: 2006.08.06 @ 11:11:25

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight:

9.00 lb/gal 47.00 sec/qt

Viscosity: Water Loss:

7.98 in³

Resistivity: Salinity:

Filter Cake:

ohmm ppm

inches

Cushion Type:

Cushion Length:

ft

Oil API: Water Salinity:

deg API ppm

Cushion Volume:

Gas Cushion Type: Gas Cushion Pressure:

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	Salt Water 50,000 Chlorides	0.393

Total Length:

80.00 ft

Total Volume:

0.393 bbl

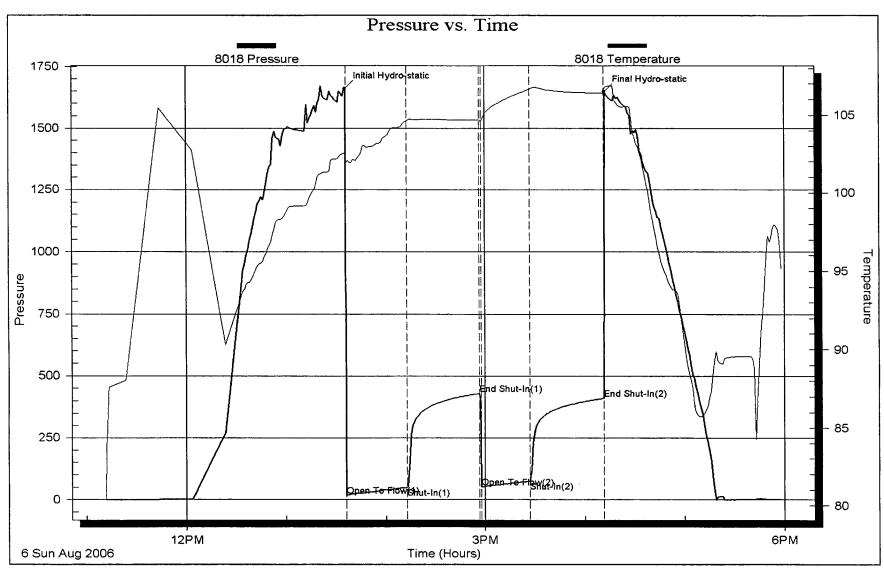
Num Fluid Samples: 0

Num Gas Bombs:

Laboratory Name: Recovery Comments: Laboratory Location:

Serial #:







Prepared For: Central Operating Inc

1600 Broadway Ste 1050 Denver CO 80202

ATTN: Neal A Lafon

1 15 19 Ellis KS

Fredd Haas #1

Start Date: 2006.08.07 @ 14:47:37 End Date: 2006.08.07 @ 23:45:07 Job Ticket #: 25147 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



Central Operating Inc

Fredd Haas #1

1600 Broadway Ste 1050 Denver CO 80202

1 15 19 Ellis KS

Job Ticket: 25147

DST#:2

ATTN: Neal A Lafon

Test Start: 2006.08.07 @ 14:47:37

GENERAL INFORMATION:

Time Tool Opened: 17:12:07

Time Test Ended: 23:45:07

Formation:

ARB

Deviated:

Whipstock:

No

ft (KB)

Test Type: Conventional Bottom Hole

Tester:

Michael Armbrister

Unit No:

31

3625.00 ft (KB) To 3682.00 ft (KB) (TVD)

Interval: Total Depth:

3682.00 ft (KB) (TVD)

Reference Bevations:

2090.00 ft (KB) 2085.00 ft (CF)

Hole Diameter:

7.88 inchesHole Condition: Fair

KB to GR/CF:

5.00 ft

Serial #: 8018

Inside Press@RunDepth:

751.75 psig @

3628.00 ft (KB)

Capacity:

7000.00 psig

Start Date: Start Time: 2006.08.07 14:47:42 End Date: End Time: 2006.08.07 23:45:07 Time On Btm:

Last Calib.:

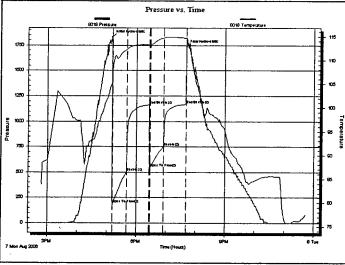
2006.08.07

Time Off Btm:

2006.08.07 @ 17:10:37 2006.08.07 @ 19:41:07

TEST COMMENT: FB of B 1 m 30 s

ISI Surface blow back FF B of B 1 m 40 s FSI Surface blow back



PRESSURE SUMMARY

		KE SUMMAKT		
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1830.57	105.21	Initial Hydro-static
	2	192.24	107.77	Open To Flow (1)
	30	505.86	112.29	Shut-In(1)
	76	1164.52	113.27	End Shut-In(1)
1	77	545.66	112.98	Open To Flow (2)
	105	751.75	114.67	Shut-In(2)
•	150	1168.58	114.64	End Shut-In(2)
	151	1734.18	114.74	Final Hydro-static
1				
1	·			
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E				

Recovery

Length (ft)	Description	Volume (bbl)
1775.00	GCO 10%G 90%O	23.49
130.00	GMCO 10%G 30%M 60%O	1.82
<u> </u>	<u> </u>	

Gas Rates

Choke (inches) Pressure (psig)

Gas Rate (Mcf/d)



TOOL DIAGRAM

Central Operating Inc

1600 Broadway Ste 1050 Denver CO 80202

1 15 19 Ellis KS Job Ticket: 25147

Fredd Haas #1

DST#: 2

ATTN: Neal A Lafon

Test Start: 2006.08.07 @ 14:47:37

Final

Tool Information

Drill Pipe Above KB:

Depth to Top Packer:

Drill Collar:

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 3451.00 ft Diameter:

Length:

9.00 ft

0.00 ft Diameter: 155.00 ft Diameter: 3.80 inches Volume: 2.25 inches Volume: 2.25 inches Volume:

Total Volume:

0.00 bbl 0.76 bbl 49.17 bbl

48.41 bbl Tool Weight:

2000.00 lb Weight set on Packer: 20000.00 lb

Tool Chased

Weight to Pull Loose: 35000.00 lb

0.00 ft

String Weight: Initial

30000.00 lb 35000.00 lb

3625.00 ft ft

Diameter:

Depth to Bottom Packer: Interval between Packers:

57.00 ft

Tool Length: Number of Packers: 85.00 ft 2

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00		-	3598.00		
Shut in Tool	5.00			3603.00		
Hydraulic tool	5.00			3608.00		
Jars	5.00			3613.00		
Safety Joint	3.00			3616.00		
Packer	4.00			3620.00	28.00	Bottom Of Top Packer
Packer	5.00			3625.00		
Stubb	1.00			3626.00		
Perforations	1.00			3627.00		
Change Over Sub	1.00			3628.00		
Recorder	0.00	8018	Inside	3628.00		
Blank Spacing	30.00			3658.00		
Change Over Sub	1.00			3659.00		
Recorder	0.00	11084	Outside	3659.00		
Perforations	20.00			3679.00		
Bullnose	3.00			3682.00	57.00	Bottom Packers & Anchor
Total Tool Length	85.00					



FLUID SUMMARY

Central Operating Inc

Fredd Haas #1

1600 Broadway Ste 1050 Denver CO 80202

1 15 19 Ellis KS

Job Ticket: 25147

DST#: 2

ATTN: Neal A Lafon

Test Start: 2006.08.07 @ 14:47:37

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Cushion Type:

Oil API:

Water Salinity:

deg API

Mud Weight: Viscosity:

47.00 sec/qt

Cushion Length: Cushion Volume:

Gas Cushion Pressure:

ft bЫ ppm

Water Loss: Resistivity:

7.97 in³

Gas Cushion Type:

psig

Salinity: Filter Cake: ohm.m ppm inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1775.00	GCO 10%G 90%O	23.487
130.00	GMCO 10%G 30%M 60%O	1.824

Total Length:

1905.00 ft

Total Volume:

25.311 bbl

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Inside

Central Operating Inc

1 15 19 ⊞is KS

DST Test Number: 2

