## CONFIDENTIAL

**WELL HISTORY - DESCRIPTION OF WELL & LEASE** 

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
TORM

September 1999

Operator: License # 6120	API No. 15 - 175-22088 2000
lame: Cabot Oil & Gas Corporation	County: Seward
ddress: 600 17th Street, Suite 900N	SW_SE_Sec12_Twp34_S. R34East \( \bigvee \) West
Sity/State/Zip: Denver, CO 80202	feet from N (circle one) Line of Section
ourchaser: Duke Energy Field Services	feet from (V (circle one) Line of Section
Purchaser: Duke Energy Field Services  Perator Contact Person: Jean Arnold - Prod. Tech. Contact Person: Jean Arnold - Prod. Tech. Contact Person: Jean Arnold - Prod. Tech. Contact Person: (303 ) 226-9443	Footages Calculated from Nearest Outside Section Corner:
hone: (303) 226-9443	(circle one) NE SE NW SW
ontractor: Name: Cheyenne Drlg Div of Trinidad Drilling LTD Partnership Rig #2	Lease Name: Fitzgerald Well #: 3-12
icense: 33784 Woodward, OK PH#:(580) 256-7226	Field Name: Hugoton
Vellsite Geologist: Petroleum Mud Logging Inc.	Producing Formation: Morrow
Pesignate Type of Completion:	Elevation: Ground: 2883' Kelly Bushing: 2895'
New Well Re-Entry Workover	Total Depth: 6759' Plug Back Total Depth: 6700'
Oil SWD SIOWTemp. Abd.	Amount of Surface Pipe Set and Cemented at 1764 Feet
<u>✓</u> Gas ENHR SIGW	Multiple Stage Cementing Collar Used?
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth set N/A Fee
Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from N/A
Operator: N/A	feet depth tow/sx cmt.
Vell Name: N/A	And the action
Original Comp. Date: N/A Original Total Depth: N/A	Drilling Fluid Management Plan ALL NJ 3509 (Data must be collected from the Reserve Pit)
Deepening Re-perf Conv. to Enhr./SWD	Chloride content 3500 ppm Fluid volume 2000 bbls
Plug BackPlug Back Total Depth	Dewatering method used_Evaporation and dry out
Commingled Docket No.	Location of fluid disposal if hauled offsite:
Dual Completion Docket No	
Other (SWD or Enhr.?) Docket No	Operator Name: N/A
5/28/07 7/5/07 @ 2 AM 7/19/07	Lease Name: N/A License No.: N/A
pud Date or Date Reached TD Completion Date or Recompletion Date	Quarter Sec. Twp. S. R. East Wes
recompletion date necompletion date	County: Docket No.:
INSTRUCTIONS: An original and two copies of this form shall be filed with	the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita,

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements

TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING

herein are complete and correct to the b	
Signature: M. W. W. Title: Production Tech.	CE
Title: Production Tech.	Date: 9/6/07
Subscribed and sworn to before me this	6th day of September
Notary Public: Monical Amiso	MONICA JAMISON NOTARY PUBLIC STATE OF COLURADO
Data Camminaian Eugiroa	TO SIMIP IN LONGING I

My Commission Expires 12/03/2008

KCC Office Use ONLY					
<u> </u>	_ Letter of Confidentiality Attached				
•	If Denied, Yes Date:				
V	_ Wireline Log Received				
V	_ Geologist Report Received				
	_ UIC Distribution				
	RECEIVED				

KANSAS CORPORATION COMMISSION

#### Side Two

Operator Name: Cab	ot Oil & Gas Cor	poration	Lease	Name:_F	itzgerald		Well #: 3-12	2
Sec. 12 Twp. 34 S. R. 34 East West			Sewa					
ested, time tool open emperature, fluid reco	and closed, flowing overy, and flow rates	and base of formations pe g and shut-in pressures, v s if gas to surface test, al inal geological well site re	whether shi	ut-in pre	ssure reached	static level, hydro	static pressure	es, bottom hole
Orill Stem Tests Taker (Attach Additional S		Yes VNo		VL	og Forma	tion (Top), Depth a	nd Datum	Sample
Samples Sent to Geol	logical Survey	☑ Yes ☐ No		Name See	Tall to the second of the seco	g record and	Тор	Datum
Cores Taken		Yes No			ation info	g record and		
Electric Log Run (Submit Copy)		Yes No		101111			986	· <b>~</b>
ist All E. Logs Run:								~AAT)
High Definition Induc							SEP 11	C 2007 ENTIAL
Compensated Z-Der CCL/GR/ Segmente		lliog				6	CONFID	ENIMA
		CASING I		✓ Ne rface, inte		ction, etc.		
Purpose of String	Size Hole Drilled	Size Casing	Weig		Setting	Type of	# Sacks	Type and Perc
Surface	12-1/4"	Set (In O.D.) 8-5/8"	Lbs. / 24#, J-55		Depth 1764'	65:35:6 Poz	650 sx	Additives 2% CC+1/4#/SX FI
						Class C	150 sx Total 800	2% CC
Production	7-7/8"	4-1/2"	11.6#,M-8	0 LT&C	6,757'	Class H & Class A	280+285=565	See attached csg r
		ADDITIONAL	CEMENTIN	IG / SQL	JEEZE RECOF	ID.		
Purpose: Perforate	Depth Top Bottom	Type of Cement	#Sacks	Used		Type and P	ercent Additives	<b>3</b>
Protect Casing Plug Back TD	DV Tool@3362'	Class A (60:40:8)	235		40% Fly a	sh 8% gel, 1/4	#/sk Flo-se	al
Plug Off Zone		Tailed w/ Class H neat	50					
Shots Per Foot	PERFORATI Specify	ON RECORD - Bridge Plug Footage of Each Interval Peri	s Set/Type forated			acture, Shot, Cement Amount and Kind of Ma		rd Dep
2	Morrow: 6080' to	o 6086' (12 holes)			Delta frac 7	OQ N2 w/ 37,600	0# 20/40 Ott	awa sd 6080-
	***************************************				Base fluid	4% KCI		
TUBING RECORD	Size 2-3/8"	Set At 6,079.42	Packer A	t	Liner Run	Yes No		
Date of First, Resumero	Production, SWD or E	Enhr. Producing Met	~	Flowing	g Pum	ping Gas Lif	t Oth	er (Explain)
Estimated Production Per 24 Hours	Oil 1		Mcf ICFD	Wate	ər		Gas-Oil Ratio	Gravi
Disposition of Gas	METHOD OF (		L	·····	Production Int	erval		
Vented ✓ Sold (If vented, Su	Used on Lease	Open Hole Other (Speci	Perf.		Dually Comp.	Commingled	KANSAS C	RECEIVED ORPORATION COI



#### Fitzgerald #3-12 (SW SE) 330' FSL & 2294' FEL Sec. 12-T34S-R34W Seward County, KS API# 15-175-22088

Purpose of String	Size Hole Drl'd	Size Csg. Set	Weight Lbs/Ft.	Setting Depth	Type of Cement	# Sacks Used	Type & Percent Additives
Surface	12-1/4"	8-5/8"	24#, J-55 ST&C	1,764'	65:35:6	650	2% CaCl2 + .1/4#/sk Flo-seal
и	66	u	a	ts .	Class C	150	2% CaCl2
						800 Total	
Production	7-7/8"	4-1/2"	11.6# M-80 LT&C	6,757'	Class H	280	10% salt, 10% gyp, 2#/sk Kol-seal, 1/4#/sk Flo-seal 0.8% fluid loss, 0.6% gas block
DV Tool	7-7/8"	4-1/2"	11.6# M-80 LT&C	3362	Class A (60:40:8) Class H Neat	235 <b>50</b>	40% fly ash, 8% gel, ¼# sk Flo-seal

Tops for Fitzgerald 3-12

Formation	Depth	Datum	
Chase	2,611'	2,895'	
Council Grove	2,990'		
Wabaunsee	3,450'		
Base of Heebner Shale	4,311'		
Toronto	4,616'		
Lansing	4,433'		
Marmaton	5,147'		
Atoka	5,610'		
Morrow	5,805'		
Lower Morrow Sand	6,028'		
Chester	6,110'		
Ste. Genevieve	6,438'		

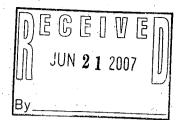
RECEIVED KANSAS CORPORATION COMMISSION



Wichita Well Sample Library 4150 MONROE STREET WICHITA KANSAS 67209 Voice - 316 943-2343 Fax - 316 943-1261

June 19, 2007

JEAN ARNOLD CABOT OIL & GAS CORPORATION 600 17TH ST., SUITE 900 NORTH DENVER, CO 80202 KCC SEP 1 1 2007 COMFIDENTIAL



#### NOTICE TO OPERATOR TO PROVIDE FORMATION SAMPLES OR DRILL CUTTINGS FOR THE FITZGERALD 3-12, SW SE 12 34 34 W, SEWARD COUNTY, KANSAS.

On June 11, 2007, CABOT OIL & GAS CORPORATION Notice of Intent to Drill was approved by the Kansas Corporation Commission to drill the referenced well. The Kansas Geological Survey has determined the formation samples or drill cuttings retained by CABOT OIL & GAS CORPORATION during drilling of the well are geologically significant. In accordance with Kansas Administrative Regulation 82-3-107, the Survey requests that the formation samples or drill cuttings are provided to the Survey within 120 days of either the spud or well recompletion date at the address listed above.

The enclosed Survey form entitled, Request to Preserve Formation Samples or Drill Cuttings, must be completed and submitted with the requested samples or cuttings.

Regulations require formation samples or drill cuttings be washed, dried, cut into splits or sets and placed in properly labeled sample envelopes. Each sample in the set must be placed in a three inch by five inch, manila envelopes with a metal fold top, and properly labeled (Fig. 1).

Well information required on each sample envelope includes:

- 1) Company name
- 2) Well number and name
- 4) Spot location
- 5) Section, Township and Range
- 7) State
- 8) Sample interval, start and end depths feet from surface
- 3) API number
- 6) County
- 9) Circulation depth and minutes

If requested by the operator or when formation samples or drill cuttings contained in the set are not properly preserved or labeled as shown in Fig. 1, the Survey will process the set of formation samples or drill cuttings and invoice the operator for the processing service.

The sample set must be delivered to the Survey at the prepaid expense of the operator. Shipments sent COD or collect cannot be accepted.



Sample confidentially requests must be made in writing to the Conservation Division, Kansas Corporation Commission, 130 S Market Rm 2078, Wichita, Kansas 67202. The Survey will hold a sample set for 120 days pending Conservation Division final action of the confidentially request.

The Survey appreciates your cooperation with the preservation of the requested formation samples or drill cuttings. Please do not hesitate to contact me should you have any questions or need additional information.

Sincerely, KANSAS GEOLOGICAL SURVEY

Michael T. Dealy

Michael T. Dealy, L.G. Manager Wichita Operations

Enclosure -

Notice of Intent to Drill (Copy)

Request to Preserve Formation Samples Or Drill Cutting Form

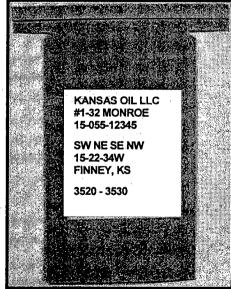


Figure 1.—Three by five inch labeled manila envelope with metal fold top.

RECEIVED

KANSAS CORPORATION COMMISSION

SEP 1 1 2007

S:WSOFFICEWORD\\Sample\_REQUEST.doc CONSERVINGO Joy

W.C. THE RE

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## KANSAS GEOLOGICAL SURVEY REQUEST TO PRESERVE FORMATION SAMPLES OR DRILL CUTTINGS

Kansas Administrative Regulation 82-3-107(c)

(To process your request, please complete and submit the form with the samples)

OPER/	ATOR
Name <b>JEAN ARNOLD</b> Operator <b>CABOT O</b>	L & GAS CORPORATION
Address 600 17TH ST., SUITE 900 NORTH	Telephone 303-226-9443 DL
City <b>DENVER</b> State <b>CO</b> Zip Code <b>80</b>	<u>)202</u>
SAMP	LES
I am submitting the following samples to the Sample Li	brary because <i>(check only one)</i> :
(a) $\boxtimes$ KGS requested the samples for the Sample Librar	<b>y</b>
(b) The operator wants the samples preserved and pla	aced in the Sample Library
(c) I authorize KGS to determine the geologic signif	icance and disposition of the samples
Well Name and Number <b>FITZGERALD 3-12</b>	
Spot Location <b>SW SE</b> Section-Township-Range <b>12</b>	2 34 34 W
County <b>SEWARD</b> State <b>KANSAS</b> API No	1517522088
Sample Condition: check all that apply 🔀 Washed	]Bagged □ Labeled □ Wet ☑ Dry
CONFIDE	TIALITY 2.
(Samples can not be held in confidential custody, if th	is section is either blank, illegible, or not completed)
I want the samples placed in confidential custody: $ ot \Sigma$	YES NO (if YES, complete the following)
A written confidentiality request $\  \  \  \  \  \  \  \  \  \  \  \  \ $	filed with the Kansas Corporation Commission
A copy of the written confidentiality request was pr	ovided to KGS: 🔀 YES 🗌 No 🗌 UNKNOWN
DUPLICATE	SAMPLES
I want a duplicate set of samples preserved.   YES	NO (if YES, complete the following)
Make set of samples. Duplicate sample int	erval:  All samples  Fromto
Send invoice and duplicate samples to:   Operator	or Other, (complete the following)
NameCo	RECEIVED KANSAS CORPORATION COMMISS
Address	SEP 1 1 2007
City / / /	State Zip Code conservation division
REQUEST SUI	BMITTED BY
Name (please print) TEAN ARMIS	Date 7 / 1 0 7
Telephone 303-226-9447 Email	Jean arnold Clabot OG. com

or KCC Use: KANSAS CORPORA	ATION COMMISSION 1009740 Form C-1 November 2005
OIL & GAS OCTOR	ERVATION DIVISION  SEP 1 2007 Form must be Typed Form must be Signed
GA? X Yes No NOTICE OF INT	EN     U DRILL
Must be approved by KCC five (	5) days prior to commencing well ONFIDENTIAL
xpected Spud Date: 06/11/2007 month day year	Spot Description:
	SW SE Sec. 12 TWP. 34 S. R. 34 DE XW
DPERATOR: License# 6120	2294 teet from X E / W Line of Section
lame: Cabot Oil & Gas Corporation	<del></del>
Address 1: 600 17th St., Suite 900 North	Is SECTION: Regular Inregular?
Address 2:	(Note: Locate well on the Section Plat on reverse side)
Sity: Denver State: CO Zip: 80202 + Contact Person: Jean Arnold	County: Seward  Lease Name: Fitzgerald Well #: 3-12
Contact Person: Jean Artiolo Phone: 303-226-9400	Lease Name: Fitzgerald Well #: 3-12 Field Name: KS-Miss / Penn
	بنافذا
CONTRACTOR: License# 33784  Name: Trinidad Orilling Limited Partnership	
Name: Stringag Drining Limited Factorship	Target Formation(s): Morrow  Nearest Lease or unit boundary line (in tootage): 330
Well Drilled For: Well Class: Type Equipment:	Ground Surface Elevation: 2885 feet MSL
Oil Enh Rec Infield I Mud Rotary	Water well within one-quarter mile:
Gas Storage Pool Ext. Air Rotary	Public water supply well within one mile:
Disposal Wildcat Cable	Depth to bottom of fresh water: 660
Seismic; # of HolesOther	Depth to bottom of usable water: 660
Other:	Surface Pipe by Alternate: X i II
If OWWO: old well information as follows:	Length of Surface Pipe Planned to be set: 1750
	Length of Conductor Pipe (if any): 40
Operator:	Projected Total Depth: 6750
Well Name:Original Total Depth:	Formation at Total Depth: St. Louis
	Water Source for Drilling Operations:
Directional, Deviated or Horizontal wellbore?	Well Farm Pond Other:
If Yes, true vertical depth:	DWR Permit #: Currently applying for it
Bottom Hole Location:	(Note: Apply for Permit with DWR )
KCC DKT #:	Will Cores be taken?
	If Yes, proposed zone:
PROPRIETES SPACES: HUBOTON AFFI	RECEIVED  CANSAS CORPORATION COMMISSION
The undersigned hereby affirms that the drilling, completion and eventual plug	
	JUN 1 1 2007
it is agreed that the following minimum requirements will be met:	JUN 1 1 ZUUY
<ol> <li>Notify the appropriate district office prior to spudding of well;</li> <li>A copy of the approved notice of intent to drill shall be posted on each of</li> </ol>	drilling rig; CONSERVATION DIVISION
The minimum amount of surface pipe as specified below <i>shall be set</i> by	y circulating cement to the top; in all cases surface//iciamoatche set
through all unconsolidated materials plus a minimum of 20 feet into the	underlying formation.
4. If the well is dry hole, an agreement between the operator and the distri	ct office on plug length and placement is necessary <b>prior to plugging;</b>
<ol> <li>The appropriate district office will be notified before well is either plugge</li> <li>If an ALTERNATE II COMPLETION, production pipe shall be comented</li> </ol>	from below any usable water to surface within 120 DAYS of spud date.
Or nursuant to Appendix "B" - Eastern Kansas surface casing order #13	3,891-C, which applies to the KCC District 3 area, alternate it cementing
must be completed within 30 days of the spud date or the well shall be	olugged. In all cases, NOTIFY district office prior to any cementing.
I hereby certify that the statements made herein are true and to the best of my	/ knowledge and belief.
6 817 Sen	Wille Flod Sed.
Date: 6 - 6 Signature of Operator or Agent:	
	Remember to:  File Drill Pit Application (form CDP-1) with Intent to Drill;
For KCC Use ONLY	
API # 15 - 175-22088-0000	File Completion Form ACO-1 within 120 days of spud date:  File acreage attribution plat according to field proration orders:
Conductor pipe required .0teet	Notify appropriate district office 48 hours prior to workover or re-entry;
Minimum surface pipe required 680 feet per ALT ▼ I □ II	- Submit plugging report (CP-4) after plugging is completed (within 60 days);
Approved by: furt 6-11-01	
This authorization expires: 12-11-07	If this permit has expired (See: authorized expiration date) please check the box below and return to the address below.
(This authorization void if drilling not started within 6 months of approval date.)	Circum the box bolow and rotatin to the dedicad bolow.

Agent:

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

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KANSAS CORPORATION COMMISSION

Well Not Drilled - Permit Expired Date: Signature of Operator or Agent:

#### Confidential Log Request (Max. 2 years)



Dominion Plaza Building 600 17<sup>th</sup> Street, Suite 900N Denver, CO 80202 PH#: 303-226-9400

FAX#: 303-226-4063

KCC SEP 1 1 2007 CONFIDENTIAL

July 2, 2007

State Corp Commission of KS Conservation Division 130 S. Market Room 2078 Wichita, KS 67202-1212 PH#: (316) 337-6223

RE:

**COGC Confidential Letter Request for all Logs & Completion Information** 

Fitzgerald #3-12

(SW SE) 330' FSL & 2294' FEL

Sec. 12-T34S-R34W Seward County, KS API# 15-175-22088

To Whom It May Concern:

Cabot Oil & Gas Corporation requests a maximum of 2 years from the date of spud on the *Fitzgerald 3-12* for all logs and completion information (ACO-1) to be held confidential, the well information is referenced above.

If you have any questions, please do not hesitate to call at 303-226-9400.

Sinceret

Jean Arnold

Production Tech.

/jaa/H:/KCC letters/confidential letter for KS logs (Fitzgerald 3-12)

CC:

Well File

RECEIVED KANSAS CORPORATION COMMISSION

SEP 1 1 2007

CONSERVATION DIVISION WICHITA, KS



24 S. Lincoln Street P.O. Box 31 Russell, KS 67665-2906

Voice: Fax:

(785) 483-3887 (785) 483-5566

BWT08:

Cabot Oil & Gas Corp. P. O. Box 670 Beaver, OK 73932

INVOICE

Invoice Number: 109011

Invoice Date: Jul 3, 2007

1

Page:



Customer ID	Well Name# or Customer P.O.	/ [ ] Paymen	t lerms
Cabot	Fitzgerald #3-12	Net 30	Days
Sales Rep ID	Camp Location	Service Date	Due Date
	Medicine Lodge	Jul 3, 2007	8/2/07

		Medicine Lodge	Jul 3, 2007	8/2/07
**Quantity*,	ne filtem?	Description	Unit Price;	Amount
150.00	MAT	Class C	15.4	0 2,310.00
18.00	MAT	Chloride	46.6	0 838.80
650.00	MAT	ALW	11.8	7,702.50
163.00	MAT	Flo Seal	2.0	0 326.00
858.00	SER	Handling	1.9	0 1,630.20
20.00	SER	Mileage 858 sx @.09 per sk per mi	77.2	2 1,544.40
1.00	SER	Surface	1,610.0	0 1,610.00
20.00	SER	Mileage Pump Truck	6.0	0 120.00
1.00	SER	Head Rent	100.00	0 100.00
1.00	EQP	Mileage 858 sx @.09 per sk per mi Surface Mileage Pump Truck Head Rent Top Rubber Plug	100.00	0 100.00
1.00	EQP	Guide Shoe	250.0	250.00
1.00	EQP	Sure Seal Collar	600.0	600.00
5.00	EQP	Centralizers	55.0	0 275.00
3.00	EQP	Stop Rings	29.0	0 87.00
		Invoice approved.  Approved Date	NTROL	
ALL PRICES A	RE NET, PAYA	BLE Subtetal formand		17,493.90
30 DAYS FOLI	LOWING DATE	OF Sales Tax	Balain	818.05
THEREAFTER	1/2% CHARGEL R. IF ACCOUNT	IS Total Invoice Amount		18,311.95
	KE DISCOUNT	OF Payment/Credit Applied		18311,95

0144989 ONLY IF PAID ON OR BEFORE

Aug 2, 2007

RECEIVED KANSAS CORPORATION COMMISSION

SEP 1 1 2007

CONSERVATION DIVISION WICHITA, KS

## **ALLIED CEMENTING CO., INC.**

32514

REMIT TO P.O. BOX 31 SERVICE POINT: **RUSSELL, KANSAS 67665** Medicine Labe CALLED OUT ONLOCATION 9:30 AM JOB START JOB FINISH RANGE 34W LOCATION LIBERAL, KS., N EN 83 TO CO. Rd 5, LEASE F. TZ GOLAN WELL# 3-12 3W, 15 ON Rd.F, 1/2 EXSTON RATY, NON, E INTO OLD OR NEW Circle one) OWNER CABOT OIL TEATS CONTRACTOR Chevenne SurFACE 2 /4" TYPE OF JOB **CEMENT HOLE SIZE** AMOUNT ORDERED 6503x 65:35:6 +2%CC+
1/4# Flo-5e41, 1503x Class C+ 2%CC **CASING SIZE** DEPTH **TUBING SIZE DEPTH DRILL PIPE DEPTH** TOOL **DEPTH** 1.100 100 COMMON 150 C @ 15.40 2310.00 PRES. MAX **MINIMUM** MEAS. LINE **SHOE JOINT POZMIX** CEMENT LEFT IN CSG. **GEL** CHLORIDE \_ BbL Freshwater @ *11.85* 7702,50 **EOUIPMENT** E@ 2.00 326,00 PUMP TRUCK # 414 CEMENTER TROMAS brokg **HELPER** BULK TRUCK # 421 **DRIVER BULK TRUCK** RAYMOND R. DRIVER MILEAGE *20* TOTAL14351,92 **REMARKS:** ife on Bottom Break circulation, Punt BBL Fresh Later, Pump 650 St 65:35:6+23; (+ 1/4 Flo Seal, 150 St Class C + 2906, Stop lungs, Release Plug Start Displacement, Displacement, Bung Bbl Fresh mater, Bung **SERVICE** DEPTH OF JOB PUMP TRUCK CHARGE Plug, Float Held, Circulate coment. **EXTRA FOOTAGE** @ 6,00 MILEAGE MANIFOLD -**@** @100.00 HEAD RENT CHARGE TO: CApot oil+GAS Co. TOTAL 1830,00 STREET\_ 85/8 PLUG & FLOAT EQUIPMENT Tol Rubber Croide Stol Plug @250.00\_250.00 Gose Seal Collar @600,00 600,00 To Allied Cementing Co., Inc. CENTRALIZERS @5.5.00 275.00 @29.00 87.00 You are hereby requested to rent cementing equipment Stop Rings and furnish cementer and helper to assist owner or ANY APPLICABLE TAX contractor to do work as is listed. The above work was TOTAL 1312,00 done to satisfaction and supervision of owner agent or WILL BE CHARGED contractor. I have read & understand the "TERMS AND UPON INVOICING CONDITIONS" listed on the reverse side. TOTAL CHARGE DISCOUNT - IF PAID IN 30 DAYS PRINTED NAME RECEIVED KANSAS CORPORATION COMMISSION



24 S. Lincoln Street P.O. Box 31

Russell, KS 67665-2906

Voice: Fax:

(785) 483-3887

EIII Tos Cabot Oil & Gas Corp.

P. O. Box 670 Beaver, OK 73932

(785) 483-5566

JUL 1 6 2007

Customer ID	Well Name/# or Chatomer P.O.	Paymen	t/Terms*
Cabot	Fitzgerald #3-12	Net 30	Days
Sales Rep ID	CampaLocation :	Service Date	Due Date
	Medicine Lodge	Jul 10, 2007	8/9/07

		ivieutonie i		Jul 10, 20		6/9/07
<b>Ouantity</b>	mea a se	De	scription ****	· · · · · · · · · · · · · · · · · · ·	t.Price:	. ≱r Amount ∷
280.00 MAT	Class I	+	33. 13. 13. 13. 13. 13. 13. 13. 13. 13.		13.40	3,752.00
30.00 MAT	Salt				9.60	288.00
70.00 MAT	Defoan	ner			7.20	504.00
560.00 MAT	Kol Sea	al			0.70	392.00
26.00 MAT	Gyp Se	eal	•		23.35	607.10
210.00 MAT	FL-160		~~~	,	10.65	2,236.50
158.00 MAT	Gas Bl	ock	KGU	)	8.90	1,406.20
11.00 MAT	Cla Pro	)	-3 1 20	700	25.00	275.00
356.00 SER	Handlir	ng	SEP	ITTIAN.	1.90	676.40
20.00 SER	Mileag	e	CONFIDE CONFIDE	19 11 110 00	32.04	640.80
1.00 SER	Two St	age Production	0000		2,310.00	2,310.00
20.00 SER	Mileag	e Pump truck			6.00	120.00
1.00 SER	Head F	Rental			100.00	100.00
1.00 EQP	Sure S	eal Float Shoe	The second secon	and order	385.00	385.00
1.00 EQP	Sure S	eal Float Collar	( A River		340-60	340.00
5.00 EQP	Stop R	ings	Sea of the second secon		25.00	125.0
20.00 EQP	Centra	lizers	I WELL THE SHEET STATE OF THE S		45.00	900.0
20.00 EQP	Turbol	zers	graph the same of the graph of		60.00	1,200.0
1.00 EQP	D V St	age tool	MODE - IN THE		3,750.00	3,750.0
6.00 EQP	Thread	Lock Kits	The same of the continues of the same of t	AND THE RESERVE	30.00	180.00
			PKS	W. saledin	A off	
			(AOJENES CLEANED		(5.11), wholesomeranisment	
ALL PRICES ARE NET,	PAYABLE	Subtotal	DANS CANCERS	Charles W	A commence of the other	20,188.00
30 DAYS FOLLOWING	DATE OF	Sales Tax	- 1000 100 100 100 100 100 100 100 100 1	ma light firet stem in terrometer between the cities in a	on the state of th	1,070.3
INVOICE. 11/2% CH		Total Invoice	China and the ch			21,258.3
THEREAFTER. IF ACC		Payment/Cre				
	··· -·	TOTAL				21.258.3



ONLY IF PAID ON OR BEFORE

Aug 9, 2007

INVOICE

Invoice Number: 109115

Invoice Date: Jul 10, 2007

1

Page:

RECEIVED KANSAS CORPORATION COMMISSION

SEP 1 1 2007

CONSERVATION DIVISION WICHITA, KS

## ALLIED CEMENTING CO., INC.

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665

SERVICE POINT:

Medicine Lodge KS.

	SEC.	TWP.	RANGE	CALLED OUT	QN LOC	ATION JOI	B START	JOB FINISH
DATE 7-06-07	12	345	342	1:00 F	40		START 30Pm	7.30Pm
titz Gerald LEASE	WELL#	3-12	LOCATION Liber	al Ks.	Marth	25° CO	unty	Fansas
OLD OF NEWXCI	<del></del>	, _	- 1 11 -	Dis.	-			I Tunsas
OLD ORTHUCH	- Cic One)		10 CO ICA S	3 west	south 12	e lover	<i>/ n</i>	T.
CONTRACTOR	heuen	ine R	io_ = 2	OWNER 2	abot 6	11+60	2.5	
TYPE OF JOB 7		stage	Production					
HOLE SIZE 7	18	✓ <sub>T.D.</sub>	6750'	_ CEMENT			,	1
CASING SIZE 4	12 X11.6	<u>DEP</u>	TH 6757					1.64pseal
TUBING SIZE		DEP				.8% FI-1	60 .6%	Gas block
DRILL PIPE		DEP	~ ~ ~ ~	+Defea	mer, 11	gals clap	ro	1
	20/	DEP			Il new	,	1/0	
	<i>8</i> 0		IMUM —	_ COMMON	√ <i>H 28</i> 0	0.000	13.40	3752.00
MEAS. LINE	1.000 /	SHC	DE JOINT 42.7/	_ POZMIX		KCO	·	i
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DISPLACEMENT	52 86	7	J 3 1 DDSMU		30 sx	MEIDER	010	288.00
•	EQU	IPMENT		34/T	- 70 =		9.60 7.20	504.00
	·			– Kolseac	560 =		.70	392.00
PUMP TRUCK	CEMENT	ER <i>DAVE</i>	telio-/lan B	- Gyaseac			75.35	607.10
#552	HELPER	Vint w	illiand	- FI-160	210 =		10-65	2236.50
BULKTRUCK		Λ		Gas Bloc	k 158	<del>-</del> @	8.90	1406.20
	DRIVER	Andy 7	tranklin	- dapro	11 901		5.00	275.00
BULK TRUCK						@		
#368	DRIVER ,	Heath M	McMUNAy	— HANDLII	۷G <b>کک</b>	@	1.90	676.40
			,	MILEAGI	E <u> </u>	09/20		640.80
	RE	MARKS:				/	TOTAL	10,778.00
Run Hotac at 6	757'	4/2 Casis	19 W/ DU TOOL	<u> </u>			•	
Set at 3395	Circul	ate on	bottom for	·		SERVICE		1
I hoves, Mix	25 sv	5cau	rger cement					
+25 5x Class	HIA	ditive	, 914.8 ppB.	DEPTH C	F JOB <u>67</u>	750'	, ,	
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Displace with	(52)		nwater + 5	<b>4</b> EXTRAF	OOTAGE	@		
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				* * y	eac float			
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and furnish ceme				L D1) 5	fage 1001		3750.00	
			he above work was	. /	d Lock Kit	. 6	<b>30.00</b> -	_ 180.60
done to satisfacti	on and su	pervision	of owner agent or	_			TOTAI	DSBC CO
contractor. I hav	e read &	understand	the "TAIMSAP	PLICABLE	TAX			•
CONDITIONS"	listed on t	the reverse	e side. WILL	BE CHARG	ED _			
•			UPON	INVOICIN	HARGE S	生产企业		:
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(	W	Di.		DISCOU	NI — Z		IF PA	אט טכ אם טו
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SIGNATURE 📡	12/		MIM	<del></del>			page (200 Art) -	NED
	,	٠	7	•		PRINTED KANS	NAMEUE SAS CORPORA	TION COMMISSION



24 S. Lincoln Street P.O. Box 31 Russell, KS 67665-2906

Voice:

(785) 483-3887

Fax:

(785) 483-5566

## BIIITO, a

Cabot Oil & Gas Corp. P. O. Box 670 Beaver, OK 73932

## INVOICE

Invoice Number: 109116

Invoice Date: Jul 10, 2007

Page:

1

Customer ID Well Name/#jor Gustomer P.O. Payment Terms						
Cabot	Fitzgerald #3-12	Net 30	Days			
Sales Rep ID	Camp. Location	Service Date	Due Date			
	Medicine Lodge	Jul 10, 2007	8/9/07			

MAT MAT MAT	Class H ASC Flo Seal Cla Pro	13.40 11.25 2.00	670.00 2,643.75
MAT MAT	Flo Seal	2.00	l l
MAT .	!		440.00
1	Cla Dra		118.00
1	Cia Pio	25.00	275.00
SER	Handling	1.90	575.70
SER	Mileage 303 sx @.09 per sk per mi	27.27	545.40
SER	Two Stage - 2nd stage	955.00	955.00
SER	Tool Hand	350.00	350.00
		KCO SEP 1 1 20 CONFIDEN	07 TIAL
,	SER SER	SER Mileage 303 sx @.09 per sk per mi SER Two Stage - 2nd stage	SER         Mileage 303 sx @.09 per sk per mi         27.27           SER         Two Stage - 2nd stage         955.00           SER         Tool Hand         350.00

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 11/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF



ONLY IF PAID ON OR BEFORE



 Subtotal
 6,132.85

 Sales Tax
 242.79

 Total Invoice Amount
 6,375.64

 Payment/Credit Applied
 6,375.64

RECEIVED KANSAS CORPORATION COMMISSION

SEP 1 1 2007

CONSERVATION DIVISION WICHITA, KS

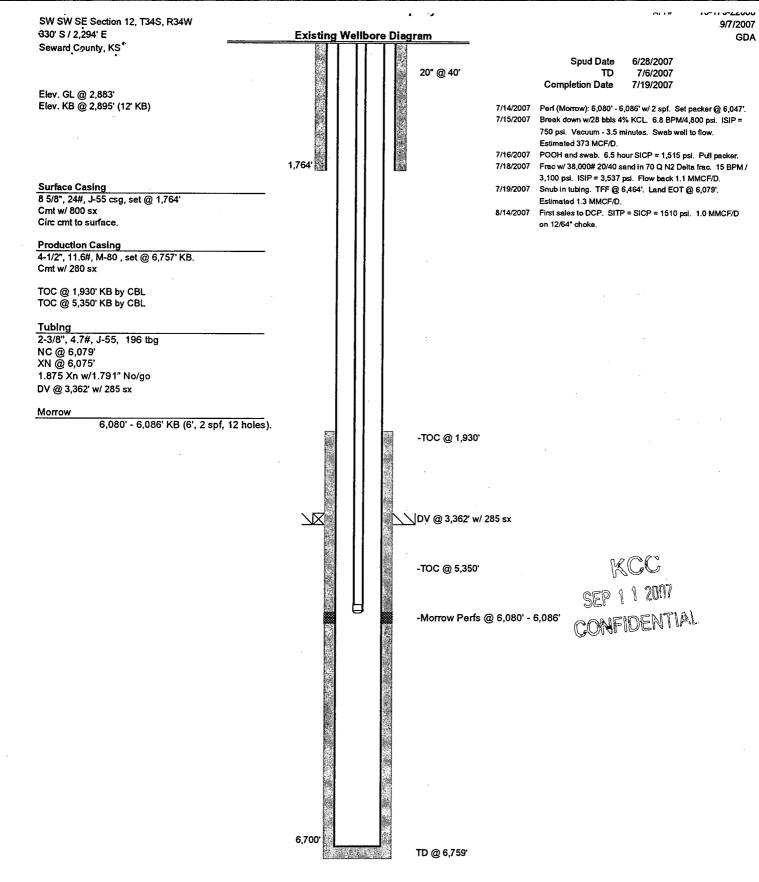
# ALLIED CEMENTING CO., INC.

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665

SERVICE POINT:

Medicine Lodge KS.

		TWP.	DANCE		WYDZ CALL OC			
DATE 07 51 0	7 SEC. /2	345	RANGE 34W	CALLED OLIE 7	4:3	CATION JOI	B START 2:30/m	JOB FINISH 1:30 Am
FitzGerald LEASE	WELL#		LOCATION Liber	1 Us h.	th == 8	CO ہنے <sub>ر</sub>	unty	STATE Kansas
OLD OR NEW C			1 0 01 - 7	Sweet 1 50	ith bs	lo nort		Nansas
CONTRACTOR C	Shower	ne R	5 T Z	OWNER (	Chat	B:1 +6		
TYPE OF JOB	<u> </u>		The Stage		agot (	211 1 6	as	
HOLE SIZE 7		T.D.	TWO Stugt	CEMENT				
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TUBING SIZE		DEP						1 /4 / Dosca C
DRILL PIPE		DEP		11 Gal		H Ne	<u>u /</u>	
TOOL		DEP			5 Clape			
	300		IMUM —	_ COMMON	4/ 5%	) @	13 UD	670.00
MEAS. LINE			E JOINT —	POZMIX	<i>//</i>		<u> </u>	810.00
CEMENT LEFT I	N CSG	5110	E JOHNI	GEL	<u> </u>	. — @		
PERFS.	11000.			_ CHLORIDE	-	~ ~ <del>@</del>	-	
DISPLACEMENT	· 5.	B6	15 4%KCL	_ ASC	·	@		
DIOI LA ICEIVIEI VI	•		S TAKEL	- mas	6/108		1125	2643.2
	EQU	IPMENT		Floseac	<u> </u>			
				Plane	1/0			275.00
PUMP TRUCK	CEMENT	ERdave	Felio Carl &	3 -14010		<b>47.3</b> @	$\omega \cdot \omega$	2/3.00
#352	HELPER	Clint	Williard			@		
BULK TRUCK			^			@		
#	DRIVER	KANDY	tranklin	<u> </u>	. ,	@		
BULK TRUCK			.,			@		
#	DRIVER			- HANDLING	· 203	@	1.90	575 70
				MILEAGE		109/2	7.10 20	545.40
	DE	MARKS:		WILLAGE	-303/	· · · · ·		
	~ 7.	MARISS.	J.		,		TOTAL	4827.8
DV 7001	-33°	72 '	Drop open	49				
Tool for	5tage	Collar,	+ Let Fall	7		SERVICE		
, 30 Mi	nutes	W/ Hin	n tivele open					
100/ w/900)	Osi Ren	21, 4 A	Ses With k	DEPTH OF				
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7 631 64 67 C			AA. 1/A / / / /					
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+ 50 5K C	lass H	veat ur	60:40: + Addifi 15h Rimp + Lin	EXTRA FO  MILEAGE	отаде <i>20</i>		6.00	N/C
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Polegie Top Excl water CHARGE TO:	lass Hi slug- abot	Neat we Displace Slug 1s Oil +		EXTRA FO  MANIFOLI  Tool	OTAGE <i>20</i>			N/C 350.00
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RECEIVED KANSAS CORPORATION COMMISSION

SEP 1 1 2007

CONSERVATION DIVISION WICHITA, KS

## **CABOT OIL & GAS PRODUCTION CORP**

### Fitzgerald 3-12

Interval 1 N/A County, N/A

Sales Order: 5233876

RECEIVED KANSAS CORPORATION COMMISSION CONSERVATION DIVISION

WICHITA, KS

## **Post Job Report**

For: N/A

Date: Wednesday, July 18, 2007

Notice: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

HALLIBURTON

#### 1.0 EXECUTIVE SUMMARY

CABOT OIL & GAS PRODUCTION CORP

Halliburton appreciates the opportunity to perform the stimulation treatment on the Fitzgerald 3-12 A pre-job safety meeting was held where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined. Pump time was 40.59 min.

The proposed treatment for Cabot Oil & Gas Production Fitzgerald 3-12 consisted of:

- 3440 gal of WATER FRAC G 25# SBM (15346)
- 3451 gal of DELTA FRAC 140 CBM 25 SBM (231490) carrying 279.24 100\*lb of SAND-PREMIUM WHITE-20/40, BULK (100003678)
- 368 gal of DELTA FRAC 140 25# -SBM (14331) carrying 50.01 100\*lb of SAND-PREMIUM WHITE-20/40, BULK (100003678)

There was 457559 ft<sup>3</sup> of Nitrogen planned.

The treatment actually pumped consisted of:

- 3839 gal of WATER FRAC G 25# SBM (15346)
- 3180 gal of DELTA FRAC 140 CBM 25 SBM (231490) carrying 234.36 100\*lb of SAND-PREMIUM WHITE-20/40, BULK (100003678)
- 168 gal of DELTA FRAC 140 25# -SBM (14331) carrying 10.90 100\*lb of SAND-PREMIUM WHITE-20/40, BULK (100003678)

The average BH treating rate was 12.1 bpm and average WH pressure was 3063 psi.

There was 434800 scf of Nitrogen.

The total liquid load to recover is 7187 gal.

Halliburton is strongly committed to quality control on location. Before and after each job all chemicals, proppants, and fluid volumes are measured to assure the highest level of quality control. Tank fluid analysis, crosslink time, and break tests are performed before each job in order to optimize the performance of the treatment fluids.

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

Kris Thomas / Cesar Chavez

Fitzgerald 3-12 Stage 1

Cabot Oil & Gas Production Fitzgerald 3-12

#### 2.0 WELL INFORMATION

#### 2.1 Customer Information

Customer

Sales Order

Well Name

Interval Well Number

Start Time

Halliburton Representative

CABOT OIL & GAS PRODUCTION CORP

5233876

Fitzgerald

3-12

18-Jul-07 07:25:55

Kris Thomas / Cesar Chavez

#### 2.2 Wellbore Geometry

Top MD ft	Bottom MD ft	OD in	ID in	Grade	Weight Ib/ft
0.0	6759.0	4.500	4.000	J-55	11.60
0.0	20.0	4.000	3.000		

#### 2.3 Perforation Intervals

Top MD	Bottom MD
ft	ft
6080.0	6086.0

#### 3.0 PUMPING SCHEDULE

#### 3.1 Designed Pumping Schedule

Stage Number	Description	Fluid System	Clean Volume gal	Prop Conc Start Ib/gal	Prop Conc End Ib/gal	Prop Type	Prop Mass 100*lb	Rate Stage Start bpm	Rate Stage End bpm	Stage Time min
1	Pad	WATER FRAC G 25# - SBM (15346)	2250	0.00	0.00			4.5	4.5	11.83
2	Proppant Laden Fluid	DELTA FRAC 140 CBM 25 - SBM (231490)	3451	3.19	13.59	SAND- PREMIUM WHITE- 20/40, BULK (10000367 8)	279.24	5.1	7.3	18.27
3	Proppant Laden Fluid	DELTA FRAC 140 25# -SBM (14331)	368	13.59	13.59	SAND- PREMIUM WHITE- 20/40, BULK (10000367 8)	50.01	7.3	7.3	1.95
4	Flush	WATER FRAC G 25# - SBM (15346)	1190	0.00	0.00			4.5	4.5	6.26
5	Shut-In	WATER FRAC G 30# - SBM (15347)	0	0.00	0.00			0.0	0.0	0.00
Total			7259				329.25			38.30

#### 3.2 Designed BH Foam Schedule

Stage Number	Description	BH Clean Foam Vol gal	BH Foam Rate Begin bpm	BH Foam Rate End bpm	BH Prop Conc Begin Ib/gal	BH Prop Conc End Ib/gal
1	Pad	7223	15	15	0.00	0.00
2	Proppant Laden Fluid	10353	15	15	0.98	4.92
3	Proppant Laden Fluid	1007	15	15	4.97	4.97
4	Flush	3822	15	15	0.00	0.00
5	Shut-In	0	0	0	0.00	0.00
Total		22405				

#### 3.3 Designed BH IPF Schedule

Stage Number		BH IPF Begin %	BH IPF End %
1	Pad	69.1	69.1
2	Proppant Laden Fluid	70.6	70.6
3	Proppant Laden Fluid	70.4	70.4
4	Flush	69.1	69.1
5	Shut-In		

#### 4.0 ACTUAL STAGE SUMMARY

#### 4.1 Stage Summary

Stage Number	Start Time	Max Treating Pressure	Avg Treating Pressure	Avg Slurry Rate	Clean Volume gal	Max Concentration	Avg Concentration
현 는 골에 왜 한 점		psi	psi	bpm		lb/gal	lb/gal
1	09:31:50	3302	2747	3.8	2255	3.01	0.48
2	09:46:13	3257	3071	5.7	3180	12.49	7.16
3	10:03:58	3081	2955	6.6	168_	10.02	6.57
4	10:04:45	4184	3645	5.0	1584	3.96	0.34
5	10:13:18	0	0	0.0	0	0.00	0.00
Total					7187		

Stage Number	Start Time	Proppant Mass Pumped 100*lb	Avg HHP hp
1	09:31:50	9.20	256
2	09:46:13	234.36	429
3	10:03:58	10.90	478
4	10:04:45	7.52	448
5	10:13:18	0.00	0
Total		261.97	

#### 4.2 Foam Stage Summary

Stage Number	Start Time	Max N2 Rate scfm	Avg N2 Rate scfm	N2 Volume scf
1	09:31:50	13540	10559	151919
2	09:46:13	13135	11329	200931
3	10:03:58	9209	9018	7062
4	10:04:45	14205	9744	74888
5	10:13:18	0	0	0
				434800

#### 4.3 Bottom Hole Stage Summary

Stage Number	Start Time	Max BH Rate bpm	Avg BH Rate bpm	Max BH Conc lb/gal	Avg BH Conc Ib/gal
WB/SL	09:31:50	16.5	12.9	0.00	0.00
1	09:39:09	15.5	14.4	0.82	0.11
2	09:52:20	19.3	14.9	6.02	2.60
3	10:10:11	13.7	1.3	4.40	2.39

#### 4.4 BH Foam Stage Summary

Stage Number	Start Time	Max BH Rate	Avg BH Rate	BH Volume	Avg BH IPF
		bpm	bpm	gal	<b>%</b>
WB/SL	09:31:50	16.5	12.9	4414	0.0
1	09:39:09	15.5	14.4	7343	68.7
2	09:52:20	19.3	14.9	10942	70.8
3	10:10:11	13.7	1.3	390	57.9
Total				23089	

#### **5.0 Performance Highlights**

#### 5.1 Job Summary

04-47	10 1.1 07 00.21 50	
Start Time	18-Jul-07 09:31:50	
End Time	18-Jul-07 10:32:00	
Max Treating Pressure	4184	psi
Avg Treating Pressure	3063	psi
Clean Volume	7187	gal
Max Slurry Rate	8.9	bpm
Avg Slurry Rate	4.9	bpm
Slurry Volume	8375	gal
Max N2 Std Rate	14205	scfm
Avg N2 Std Rate	10711	scfm
N2 Std Volume	434800	scf
Max Proppant Concentration	4.91	lb/gal
Avg Proppant Concentration	0.94	lb/gal
Proppant Mass Pumped	261.97	100*lb
Avg HHP	369	hp
BH Max Rate	19.3	bpm
BH Avg Rate	12.1	bpm
BH Volume	23089	gal
BH Avg IPF	56.8	%
BH Clean Foam Volume	21568	gal
BH Max Proppant Concentration	6.02	lb/gal
BH Avg Proppant Concentration	1.44	lb/gal
Proppant in Formation	253.84	100*lb
Load to Recover	7187	gal

#### 5.2 Job Event Log

Time	Description	Comment	Treating Pressure	Slurry Rate	N2 Standard	Job Clean Vol	Job Slurry
r Bright			psi	bpm	Rate scfm	gal	Vol gal
18-Jul-07 06:00:00	Arrive At Loc						
06:30:00	Pre-Rig Up Safety Meeting						
08:56:23	Start Job	Starting Job					
08:56:23	Next Treatment	Treatment Interval 1					
09:04:18	Prime Pumps		42	8.8	0	518	518
09:11:29	Pressure Test		5520	0.0	0	1512	1512
09:17:34	Pressure Test	N2 Line	4596	0.0	0	1512	1512
09:18:14	Pre-Job Safety Meeting		1533	0.0	0	1512	1512
09:31:51	Stage 1	Pad	1429	6.0	2518	1657	1657
09:46:14	Stage 2	Proppant Laden Fluid	3233	4.9	13122	2255	2297
10:03:59	Stage 3	Proppant Laden Fluid	3002	7.0	9235	5435	6540
10:04:46	Stage 4	Flush	2966	6.5	8974	5603	6757
10:13:19	Stage 5	Shut-In	3544	0.0	0	7187	8375
10:13:22	ISIP		3537	0.0	0	7187	8375
10:18:22	Shut-In Pressure @ 5 Minutes		3192	0.0	0	7187	8375
10:23:22	Shut-In Pressure @ 10 Minutes		3034	0.0	0	7187	8375
10:28:22	Shut-In Pressure @ 15 Minutes		2956	0.0	0	7187	8375
10:32:00	End Job	Ending Job	-6	0.0	0	7187	8375

Fitzgerald 3-12 Stage 1 Cabot Oil & Gas Production Fitzgerald 3-12

#### ISIP 5.3

Time	<b>Description</b>	Pressure
10:13:22	ISIP	3537
10:18:22	Shut-In Pressure @ 5 Minutes	3192
10:23:22	Shut-In Pressure @ 10 Minutes	3034
10:28:22	Shut-In Pressure @ 15 Minutes	2956

#### 6.0 QUALITY ASSURANCE

#### 6.1 Break Test

Test Number	Fluid Temp Fluid Name		GBW-30/ slurry	SP Breaker/ slurry
	<b>°F</b>		gal/Mgal	gal/Mgal
1	132.0	DELTA FRAC 140 CBM 25	0.25	0.00
2	132.0	DELTA FRAC 140 CBM 25	0.50	0.00
3	132.0	DELTA FRAC 140 CBM 25	1.00	0.00
4	132.0	DELTA FRAC 140 CBM 25	2.00	0.00
5	132.0	DELTA FRAC 140 CBM 25	0.00	0.00

Test Duration	Test #1	Test #2	Test #3	Test #4	Test #5
min	Fluid Visc	Fluid Visc	Fluid Visc	Fluid Visc	Fluid Visc
0.00	C-Crosslinked	C-Crosslinked	C-Crosslinked	C-Crosslinked	C-Crosslinked
10.00	C-Crosslinked	C-Crosslinked	C-Crosslinked	WC-Weak crosslink	C-Crosslinked
20.00	C-Crosslinked	C-Crosslinked	WCS-Weak crosslink stringy	B-Broke	C-Crosslinked
30.00	C-Crosslinked	WC-Weak crosslink	B-Broke		C-Crosslinked
40.00	C-Crosslinked	WC-Weak crosslink			C-Crosslinked
50.00	WC-Weak crosslink	WCS-Weak crosslink stringy			C-Crosslinked
60.00	WC-Weak crosslink	WCS-Weak crosslink stringy			C-Crosslinked
70.00	WCS-Weak crosslink stringy	B-Broke			C-Crosslinked
80.00	WC-Weak crosslink				C-Crosslinked
90.00	B-Broke				C-Crosslinked_
100.00	B-Broke				C-Crosslinked

#### 6.2 Base Fluid Source

Name	Begin Strap	End Strap Volume	Planned gal	Actual gal	% Difference
	Volume gal	gal			
3% KCL Water	10080.0	420.0	7182.0	9660.0	34.50

#### 6.3 Liquid Additives

Name	Begin Strap Volume gal	End Strap Volume gal	Planned gal	Actual gal	Ticket Total gal	% Difference
GBW-30/ slurry	20.0	0.0	18.0	20.0	20.0	11.11
BC-140	65.0	50.0	11.0	15.0	15.0	36.36
Gasperm 1000	290.0	275.0	8.0	10.0	15.0	25.00
HC-2	280.0	240.0	29.0	35.0	40.0	20.69
SP Breaker/ slurry	0.0	0.0	0.0			

#### 6.4 Dry Additives

Name	Begin Volume Ib	End Volume Ib	Planned lb	Actual lb	Ticket Total Ib	% Difference
GBW-30	15.00	7.00	8.00	8.00	8.00	0.00
SP Breaker	30.00	30.00	0.00	0.00	0.00	
BE-3S	2.00	0.00	2.00	2.00	2.00	-0.05
BE-6	2.00	0.00	2.00	2.00	2.00	-0.05

#### 6.5 Proppant Inventories

Name	Begin 100*lb	End 100*lb	Planned 100*lb	Actual 100*lb	% Difference
SAND-PREMIUM WHITE-	376.40	0.00	349.10	376.40	7.82
20/40, BULK				-	
(100003678)					

#### 6.6 Sand Sieve Tests

**Sieve Test** 

Name	SAND-PREMIUM WHITE-20/40, BULK (100003678)	
Description	Badger 20/40	
Absolute Volume	0.05	gal/lb
Sieve Size	20/40	
Sieve Type	Standard	
Sample Mass	100.00	9
Passed Test	Yes	

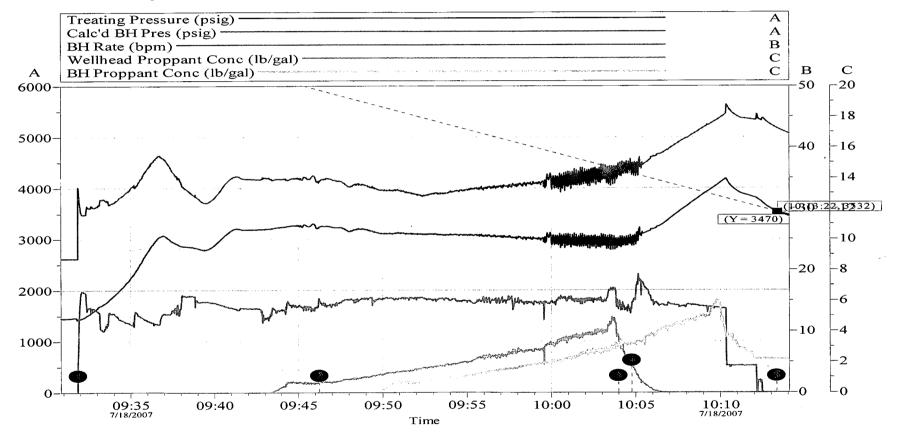
Sieve Size	Amount	Percent		
	Retained	%		
#16	0.000	0.0		
#20	2.300	2.3		
#30	33.500	33.5		
#35	45.200	45.2		
#40	13.100	13.1		
#50	5.700	5.7		
Pan	0.000	0.0		
Total	99.800	99.8		

#### 6.7 Fluid Analysis Tests

Tank	Fluid Name	Fluid	Test Temp	рН	Iron Conc	Chloride	Sulfate Conc
		Density	°F		mg/L	Conc	mg/L
Pina viši		lb/gal				mg/L	
1	3% KCL Water	8.52	91.0	7.50	0.00	16920.00	0.00
Average		8.52	91.0		0.00	16920.00	0.00

#### 7.0 ATTACHMENTS

#### 7.1 Job Summary



#### 7.2 Job Chemicals

