KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1 September 1999 Form Must Be Typed

WICHITA, KS

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License #	API No. 15 - 055-21946-0000
Name: Kansas Natural Gas Operating, Inc.	County: Finney County
Address: P.O. Box 815	SE -NW - NW - 1/4 Sec. 01 Twp. 25 S. R. 34 ☐ East West
City/State/Zip: _Sublette, KS 67877	1250' feet from S / (O (circle one) Line of Section
Purchaser: Oneok Pipeline	1250' feet from E / (circle one) Line of Section
Operator Contact Person: Steve Lehning	Footages Calculated from Nearest Outside Section Corner:
Phone: (_620) _675-8185	(circle one) NE SE (NW) SW
Contractor: Name: Trinidad Drilling - LP	Lease Name: Spratt Well #: 4-3
License: 33784	Field Name: Hugoton
Wellsite Geologist: Ron Ostebuhr	Producing Formation: Chase Series
Designate Type of Completion:	Elevation: Ground: 2938.2' Kelly Bushing: 2950'
New Well Re-Entry Workover	Total Depth: 2707' Plug Back Total Depth: 2698' KB
Oil SWD SIOWTemp. Abd.	Amount of Surface Pipe Set and Cemented at 900' G.L. Feet
✓ Gas ENHR SIGW	Multiple Stage Cementing Collar Used?
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth setFeet
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from
Operator:	feet depth to
Well Name:	
Original Comp. Date: Original Total Depth:	Drilling Fluid Management Plan Alt I Sh (Data must be collected from the Reserve Pit) 3-25-08
Deepening Re-perf Conv. to Enhr./SWD	100 NA - 100
Plug BackPlug Back Total Depth	Dewatering method used Evaporate Till Dry - Backfill
Commingled Docket No.	
Dual Completion Docket No	Location of fluid disposal if hauled offsite:
Other (SWD or Enhr.?) Docket No	Operator Name:
11-11-2007 11-13-2007 12-10-2007	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.:
	V
Kansas 67202, within 120 days of the spud date, recompletion, workov Information of side two of this form will be held confidential for a period of	th the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, were or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. 12 months if requested in writing and submitted with the form (see rule 82-3-3 and geologist well report shall be attached with this form. ALL CEMENTING s. Submit CP-111 form with all temporarily abandoned wells.
All requirements of the statutes, rules and regulations promulgated to regulate herein are complete and correct to the best of my knowledge.	ate the oil and gas industry have been fully complied with and the statements
Signature: Steve Lehning	KCC Office Use ONLY
Title: Date:	Letter of Confidentiality Received
Subscribed and sworn to before me this 11th day of January	If Denied, Yes Date:
20_08	Wireline Log Received
ν · \rightarrow	Geologist Report Received KANSAS CORPORATION
Notary Public: Kay Loro	Geologist Report Received KANSAS CORPORATION COMMISS
Date Commission Expires: KRAIG L. GROSS	copy to Jim JAN 172008
MOTARY PUBLIC STATE OF KANSAS My Appl Exp. 5 2 10	CONSERVATION DIVISION
	WICHITA

Side Two

Operator Name: Kan	sas Natural Gas Op	erating, Inc.	Lease	Name:	Spratt		_ Well #: 4-3	
	5 S. R. 34		t County	/: Finney	County			
ested, time tool ope emperature, fluid re	n and closed, flowing covery, and flow rate	and base of formatio g and shut-in pressu s if gas to surface te final geological well	ires, whether shest, along with f	nut-in pre	ssure reached	static level, hydro	static pressui	
Orill Stem Tests Take		☐ Yes 📝 N	lo		og Formati	ion (Top), Depth a	nd Datum	✓ Sample
samples Sent to Ge	·	✓ Yes N	lo	Nam	е		Тор	Datum
ores Taken	,	☐ Yes ☑ N	lo	T- Pe	rmian		908'	2042'
lectric Log Run		✓ Yes N	lo	T-Bla	ine		1351'	1599'
(Submit Copy)				B-Sto	ne Corral		1974'	976'
ist All E. Logs Run:				T-Ho	llen Berg		2530'	420'
(Dual - Space	ed Gamma Ra	y Neutron)		T- He	errington		2554'	396'
				T-Kri	der		2578'	372'
		<u> </u>	- k	T-Wii	nfield	/	2611'	339'
			SING RECORD set-conductor, su	✓ Ne urface, inte			(No.EV)	
Purpose of String	Size Hole	Size Casing	Wei	ght	Setting	Type of	# Sacks	Type and Percent
Surface Pipe 12 1/4"		Set (In O.D.) 8 5/8"	24 #	/ Ft.	Depth 900' G.L.	Cement Econocem Lite	Used 355	Additives 3% Cal. Chloride
Production Pipe	7 7/8"	5 1/2"	15.5 #		2695' G.L.	Halchem "C"	400	3 % Cal. Chloride
		ADDITIC	ONAL CEMENTII	NG / SQL	JEEZE RECORI	_l	<u> </u>	
Purpose: Perforate Protect Casing Plug Back TD	Depth Top Bottom	Type of Cement	#Sacks	Used		Type and Po	ercent Additive	S
Plug Off Zone								
Shots Per Foot		ON RECORD - Bridge Footage of Each Interve				cture, Shot, Cement mount and Kind of Ma		ord Depth
4) Shots p/foot	2559' - 2567' KB				Acid: 3,200 G	allons of 15% Fe	-Mud	
	2580' - 2588' KB				and 100 BBL	S. of 2 % KCL Flu	ısh	
	2614' - 2626' KB	KB = 12'						
	2672' - 2676' KB	(128 Holes)			Frac: Delta-Fo	oam Frac. 70,000	# of	
					Premium 12/2	20 at 39 Barrel P/I	Minute	
TUBING RECORD 2 3/	Size 8" EUE 8 Rd. Tubing	Set At 2667' G.L.	Packer A None	At	Liner Run	Yes ☑ No		
Date of First, Resumer	d Production, SWD or E							
Pending Pipeline Estimated Production	Oil	Bbls. Gas	Mcf	Flowing 			as-Oil Ratio	ner <i>(Explain)</i>
Per 24 Hours		NA		NA				•
Disposition of Gas Vented Sold	METHOD OF (COMPLETION Open F	Hole 📝 Perf.	. [] D	Production Inter		KANSAS CO	RECEIVED ORPORATION COMMISS (B 2614'-2626' KB
(If vented, Su	ibmit ACO-18.)	Other ((Specify)				580'-2588 '] 	HN 26 727-22008 B

CONSERVATION DIVISION WICHITA, KS

N

Side Two

Operator Name: Kansas Natural Gas Operating, Inc.		Leas	e Name:_S	pratt	Well #: 4-3					
Sec. 01 Twp. 25				ty: Finney						
INSTRUCTIONS: Sh tested, time tool oper temperature, fluid rec Electric Wireline Logs	n and closed, flowing covery, and flow rates	and shut-in pre if gas to surfac	ssures, whether s e test, along with	shut-in pres	ssure reache	d static level, hyd	rostatic pressure	s, bottom hole		
Drill Stem Tests Take (Attach Additional		Yes] No	Lo	g Forma	ation (Top), Depth	and Datum	✓ Sample		
Samples Sent to Geo	ŕ	Yes	No	Name)		Тор	Datum		
Cores Taken	,		No	T- Tov	vanda		2668'	282'		
Electric Log Run		Yes	No	RTD:			2707'	243'		
(Submit Copy)				LTD:			2698'	252'		
List All E. Logs Run:				PBTD)		2698'	252'		
(Dual - Space	d Gamma Rav	Neutron)								
(Baar Opaco	a camma ray	riounon								
•						(cont.	uea Feam Fie	0		
			CASING RECORD	✓ Nev	w Used	(00/1/1	JOEA LEDIN LIN	ST PAGE!		
		Report all str	ings set-conductor, s		_	uction, etc.				
Purpose of String	Size Hole Drilled	Size Casin Set (In O.E		eight ./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives		
								-1		
						<u>'</u>				
		ADDI	ITIONAL CEMENT	ING / SQUI	EEZE RECOF	RD				
Purpose: Perforate	Depth Top Bottom	Type of Cem	ent #Sack	s Used		Type and	Percent Additives			
Protect Casing Plug Back TD Plug Off Zone					4					
Shots Per Foot		ON RECORD - Brootage of Each Int	idge Plugs Set/Type erval Perforated			racture, Shot, Ceme Amount and Kind of N		l Depth		
					·					
								-		
					·		,			
TUBING RECORD	Size	Set At	Packer	At	Liner Run	Yes N	0	<u></u>		
Date of First, Resumero	Production, SWD or Er	nhr. Produ	cing Method	Flowing	Pum	ping Gas L	ift Other	(Explain)		
Estimated Production Per 24 Hours	· Oil E	Bbls. G	as Mcf	Water		Bbls.	Gas-Oil Ratio	Gravity		
Disposition of Gas	METHOD OF C	OMPLETION			Production Inte	erval				
Vented Sold	Used on Lease	Оре	en Hole 🔲 Per	f. 🔲 Du	ally Comp.	Commingle KA	RECE INSAS CORPORAT	IVED FION COMMISSION		

JAN 17 2008

DRILLING & GEOLOGICAL SUMMARY

Operator: Kansas Natural Gas			
Well Name & #: Spratt #4-3		A.P	I. #: <u>15 - 055 - 21946 -0000</u> NW Sec. <u>01</u> Twp. <u>25 S</u> Rng. <u>34 W</u>
Location: 1250 ' F N I / 12	50 ' FW i	/SE/NW/	NW Sec O1 Two 25 S Pro 34 W
			m: <u>KB</u> Depth: <u>2707</u> PBTD: <u>2698</u>
Drilling Spud Date: 11 - 11 -	2007	Drilli	ng Completed Date: <u>11</u> - <u>13</u> - <u>2007</u>
			se Number: 33784
		"_ <u></u>	se nameer <u>55754</u>
Surface Casing Size: 8.625 "	Weight:24	# Gra	de: <u>J-55</u> Depth Set @: <u>912</u>
Equip. & Cement: 'texas' pattern			
		z# Flo-Cele; .	.55 sx of tail w/ Flo-Cele.
Circulated 4 sacks of cement to	o the surface.		Surface Hole Deviation: <u>1 3/4</u> degrees.
Prod. Casing Size:	Weight: <u>15.5</u>	_# Grad	de: <u>J-55</u> Depth Set @: <u>2707</u>
Equip. & Cement: guide shoe w/i	ntegral latch-do	own baffle. 10	centralizers.
			50 sx w/ 1/4# Flo-Cele.
Circulated 122 sacks of cement to	o the surface.		Total Depth Hole Deviation: 1 1/4 degrees.
Open Hole Logs: <u>none</u>		Cased Hole L	ogs: G/R - DSN - CCL
Horizon	Depth (KB)	Datum	Remarks
T/PERMIAN	908	2042	
T/BLAINE	1351	1599	
B/STONE CORRAL	1974	976	
T/HOLLENBERG	2530	420	
T/HERINGTON	2554	396	perforate 2559'-2567'
T/KRIDER	2578	372	perforate 2580'-2588'
T/WINFIELD	2611	339	perforate 2614'-2626'505"
T/TOWANDA	2668	282	perforate 2580-2588 perforate 2614'-2626'FCEIVED perforate 267程SABGORPORATION COMMISS
T/FORT RILEY T/COUNCIL GROVE	_	-, , , , , , , , , , , , , , , , , , , 	STITION COMMISS
RTD	7707	5.45	JAN 1 7 2008
LTD	2707	243	7 2000
PBTD	2698 2698	252	CONSERVATION DIVISION WICHITA KO
REFERENCE ELEVATION	2950	252	WICHITA, KS
Perforations: <u>2559'-2567', 2580</u>		2626', 2672'-	2676' all w/4 SPF
Add Treatment: 3299 gallons of	1504 EE-MCA	**************************************	Was 376# 44 4 BBM
		max pressure	was 276#, max rate was 11.1 BPM,
<u>some ball actio</u>			
	n		
	n		
Frac. Treatment: 70,100# of 12		bls of treated	water, 318,317 scf nitrogen. max
Frac. Treatment: 70,100# of 12,	/20 sand, 250 b	obls of treated	water, 318,317 scf nitrogen. max
Frac. Treatment: 70,100# of 12, pressure was 1	/20 sand, 250 b	obls of treated e was 47.6 B	water, 318,317 scf nitrogen. max
Frac. Treatment: 70,100# of 12, pressure was 1	/20 sand, 250 b	obls of treated e was 47.6 B	water, 318,317 scf nitrogen. max
Frac. Treatment: 70,100# of 12, pressure was 1 Name: Kurt Osterbuhr	/20 sand, 250 b	obls of treated e was 47.6 B	Date: 01 - 05 - 2008

P.3/13

10:7856253315

JAN-09-2008 07:07 FROM:

Cementing Job Summary

The Road to Excellence Starts with Safety

O-14 T- #-	20200			O		e Koad to					tn Sare	ty				<u> </u>	" 5400	.070
Sold To #:			A T. 10 A			#: 261122			Quot						ales	Order	#: 5486	8/2
Customer:			ATURA	(L GA	4S OF				Cust	omer	Rep: L	enni						
Well Name							ell#:						API				21946	
Field: HUC						JNKNOW		County	/Pan	sh: F	inney			S	tate:	Kansa	as	
Legal Desc					nship													
Contractor						Rig/Plat	form	Name/	Num:	: 16								
Job Purpo					sing													
Well Type:						Job Typ												
Sales Pers	on: H	ESTO	N, MY	RON		Srvc Su	pervi	sor: D	EETZ	Z, DOI	NALD	M	IBU IC	Em	p#:	38985	55	
							ل	lob Pe	rsonr	nel								
HES Em		ne l	Exp Hrs		np#			Vame	Ex	p Hrs	Emp	#	HES	S Em	p Nar	ne	Exp Hrs	Emp#
CARRILLO			6.0	371	263	DEETZ, I	AMOC	LDE	6.	.0	38985	5 F	ERGL	ISON	, RO	SCOE	6.0	106154
EDUARDO		0		400									3					
HUTCHES RICKY	ON,		6.0	428	3969													
TOTAL .				ــــــــــــــــــــــــــــــــــــــ		<u> </u>		Equip	man	•							J	<u> </u>
HES Unit #	Die	tance-	1 way I	HFC	Unit	# Dista	nce 1			Unit:	# Di-	tono	e-1 wa	, 1 .	JEC I	Jnit #	Diete	200 4 11101
10010921C	<u></u>		· way		10236	# Dista		mdy	1094			tance mile	=- i wa		1ES (4219	אוונ #	80 mile	nce-1 way
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Dete	0-	147			. 1			Job F		1	4.				-			· · ·
Date	1	Locati Hours		perat Hour	- 1	Date		On Loca Hour			erating Hours	1	Date	е	On	Locati		perating
11/12/07	 '	6		3	-		\dashv	Hour	5		Tours	-			-	Hours		Hours
TOTAL	-							. 7	otal is	the s	um of ea	och c	olumn :	canar	eteh.			
	13/15 E			Jot			\$3 E.S	al i	Otas 73	1110 3	Same of Ge	2011 00	A lance of the said	Job				
Formation N	lame		13 N 12 N N	(6) ×			<u>atian isteri</u>	774	1 1	185 (196 (1 ₂ 5) 		T		Date	init	Tin	10 T	ime Zone
Formation D		MD) T	Op			Botto	m			Calle	d Out		11 - N		2007	23:		CST
Form Type	S P S II	/	y P		BHS		111	T			ocation	-+	12 - N			02:		CST
Job depth M	D		897. ft			Depth TVD		897	. ft		Started	_	12 - N			06:		CST
Water Depth						It Above F		4.			Complet	ed	12 - N			07:		CST
Perforation	Depth	(MD) F	rom		J	То		1,			rted Lo		12 - N			08:		CST
			1					Well								1		
Descripti	on	New /	Ma	ιX	Size	ID	Weig			read		Gra	ade	Тор	MD	Botto	m Top	Botton
		Used	press	sure	in	in	lbm/							ft	1	MD	TVD	
			psi	ig												ft	ft	ft
Surface Cas		New			8.625		24.		8 RD	(ST&	C)	Unkr	nown			900.		
Surface Hole	Bertittaanin	Se est s	1	2 S 4 D 4 4 5 6 5 6	angy Kemi Sir	12.25	e Agenta Sagara Attack	AND AND IN COLUMN	ade se	cvanie se			State of Text	4 (2) (0) (0) (0) (0)		900.		
							les/R	ental/3	'' Pa	rty (H	ES)		26.17.0					
21112 215	TOD)escri							Qty			Dep	th	Sup	plier
PLUG,CMTG						MA						1	E/					
SHOE, CSG,												1	E/					
VLVASSY,IN					lbs/ft							1	E/	1				
FILLUP ASS		_						-				1	E/					
CENTRALIZE					S X							3	E/	1				
BASKET-CM			-SLIP-O	N-S								_1	E.					
SUGAR - GR			esistee Thomas		105a-1944 - 11	ADVINE AND THE PARTY OF THE PAR				•		40	LE	3				
and the second second second			W W Y S S S S S		1,000, 910, 1511		Tools	and A	cces	sorie	S		***					
56.70±0.50			Make			Type	Size	Qty	N	lake	Depth		Туре	<u> </u>	S	ize	Qty	Make
Type	Size	1 4	Н	89		acker						Тор	Plug		8	5/8	1	Н
Type Guide Shoe		1			D	ridge Plug	1					Bott	om Pl	ug				
Type Guide Shoe Float Shoe		7		<u> </u>														
Type Guide Shoe Float Shoe Float Collar	8 5/8				R	etainer						SSR	plug	set				
Type Guide Shoe Float Shoe Float Collar		1	Н	85	R							Pluç	plug Cont tralize	ainer	8	5/8 R	CF1/r	D H COMMISSION

Summit Version: 7.20.130

Monday, November 12, 2007 07:27:00

JAN 17 2008

Cementing Job Summary

		<u> </u>	1 11 7 19 19 19		950 A 200 A 20	*****	ous Mat	erials						6 7 VM
Gelling	· · · · · · · · · · · · · · · · · · ·		Con		Surfactar	nt		Conc		і Туре		Qty	Con	c %
Treatm	nent Fld		Con	C	Inhibitor			Conc	San	d Type		Size	Qty	
333			A TOTAL STATE OF THE STATE OF T		OSS 4	Flu	id Data							
St	age/Plug	dating primate in a say and other											. Must have	
Fluid #	Stage 1	ype		Fluid N	ame		Qty	Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Fluid (
1	Water Pro	e-					10.00	bbl	8.33	.0	.0	6.0		
2	Lead Cen	nent	ECONOC	EM (TM) SY	STEM (452	992)	200.0	sacks	11.4	2.95	18.09	6.0	18.	09
	0.1 %		WG-17, 5	0 LB SK (10	0003623)					·		.1		
	3 %		CALCIUM	CHLORIDE	- HI TEST	PELLET	r (100005	053)				, in	· •	
	0.5 lbm		POLY-E-F	LAKE (1012	216940)									
	18.09 Gal		FRESH W	/ATER							•			
3	Tail Cem	ent	HALCEM	(TM) SYST	EM (452986	5)	155.0	sacks	14.8	1.34	6.32	6.0	6.3	32
	2 %		CALCIUM	CHLORIDE	- HI TEST	PELLE1	(100005	053)						
	0.25 lbm		POLY-E-F	FLAKE (1012	216940)									
	6.324 Gal		FRESH W	/ATER										
4	Water						54.00	bbl	8.33	.0	.0	6.0		
The State Committee	Displacem	Charles and an area											<u> </u>	
	liculated	Control of the	\$45.4F (1.9C) \$45.0W (1996	Pressu	es		sia di S		A STAN	/olumes				
	cement	54		In: Instant		Lost R	eturns	0	Cement S		142	Pad		
	f Cement	0	5 Min				t Returns		Actual D	isplaceme	ent 54	Treatr	nent	
rac G	iradient	station in the later	15 Mi	n	e Reference and a contract of the contract	Spacer		10	Load and	Breakdov	vn	Total .	Job	196
		eritaning Committy Committee	ministration of the second of the second	er en		F	kates :::		60,0 10 10 10 10 10 10 10 10 10 10 10 10 10				TWITE.	
	lating	4_		Mixing	6		Displac	ement	6	6	Avg. J	ob	5	
	ent Left in		Amount		son Shoe		1							
rac I	Ring # 1 @		ID F	rac ring # 2	@	D	Frac Rin	g#3@1		D F	rac Ring	#4@	ID) i

Recieved 3.38 sks back to pit

RECEIVED

KANSAS CORPORATION COMMISSION

JAN 172008

CONSERVATION DIVISION

WICHITA, KS

CEMENT SURFACE Pipe Cementing Job Log

Ticket Amount:

The Road to Excellence Starts with Safety

Quote #: Sales Order #: 5486872 Sold To #: 303233 Ship To #: 2611227 Customer: KANSAS NATURAL GAS OPERATING INC Customer Rep: Lehning, Steve Well #: #4-3 API/UWI #: 15-055-21946 Well Name: Spratt Field: HUGOTON City (SAP): UNKNOWN County/Parish: Finney State: Kansas Legal Description: Section 1 Township 25S Range 34W Long: E 0 deg. OR E 0 deg. 0 min. 0 secs. Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs. Contractor: CHEYENNE DRLG Rig/Platform Name/Num: 16

Job Purpose: Cement Surface Casing Well Type: Development Well Job Type: Cement Surface Casing

Sales Person: HESTON, MYR	ON Srvc S	Supervis	sor: DEE	ETZ, DO	NALD	MBU ID Emp #: 389855					
Activity Description	Date/Time	Cht	Rate bbl/ min		ume Ibl	Pressure psig		Comments:			
		#		Stage	Total	Tubing	Casing				
Arrive At Loc	11/12/2007 02:30							RIG WAS PULLING DRILL PIPE			
Pre-Job Safety Meeting	11/12/2007 02:35										
Rig-Up Completed	11/12/2007 03:30										
Start In Hole	11/12/2007 04:05										
Casing on Bottom	11/12/2007 05:45							·			
Circulate Well	11/12/2007 05:50										
Test Lines	11/12/2007 06:27							TEST LINES TO 2000 PSI			
Pump Spacer 1	11/12/2007 06:29		5		10		50.0	RIG WATER			
Pump Lead Cement	11/12/2007 06:32		6		105		100.0	200 SKS @ 11.4			
Pump Tail Cement	11/12/2007 06:48		6		37		125.0	155 SKS @ 14.8			
Drop Plug	11/12/2007 06:56										
Pump Displacement	11/12/2007 06:57		6		54		170.0	RIG WATER			
Other	11/12/2007 07:05		2					SLOW RATE LAST 10 BBL TO 2 BBL MIN			
Bump Plug	11/12/2007 07:10			Kan	REI ISAS CORPO	CEIVED PRATION COM	225.0	BUMPED PLUG @ 225 TOOK TO 800 PSI. RECIEVED 10 BBL CEMENT RETURNS			
End Job	11/12/2007 07:12				JAN	7 2008		OR 3.38 SKS THANKS FOR CALLING			
					CONSERVA WICH	TON DIVISION TA, KS		HALLIBURTON ERIC & CREW			

Sold To #: 303233

Ship To #:2611227

Quote #:

Sales Order #:

5486872

SUMMIT Version:

7.20.130

Monday, November 12, 2007 07:27:00

Cementing Job Log

Activity Description	Date/Time	Cht b	■ 1 Fit State 1 CP440 Bit 988	ume bl Total	p:	sure sig Casing	Comm	ients
Post-Job Safety Meeting (Pre Rig-Down)	11/12/2007 07:20							

KANSAS CORPORATION COMMISSION

JAN 172008

CONSERVATION DIVISION
WICHITA, KS

Sold To #: 303233

Ship To #:2611227

Quote #:

Sales Order #:

5486872

SUMMIT Version:

7.20.130

Monday, November 12, 2007 07:27:00

CEMENT Long STRING Pipe Cementing Job Summary

The Road to Excellence Starts with Safety Sold To #: 303233 Ship To #: 2611227 Quote #: Sales Order #: 5491898 Customer Rep: Lehning, Steve Customer: KANSAS NATURAL GAS OPERATING INC Well Name: Spratt Well #: #4-3 API/UWI #: 15-055-21946 Field: HUGOTON City (SAP): UNKNOWN County/Parish: Finney State: Kansas Legal Description: Section 1 Township 25S Range 34W Contractor: CHEYENNE DRLG Rig/Platform Name/Num: 16 Job Purpose: Cement Production Casing Well Type: Development Well Job Type: Cement Production Casing Sales Person: HESTON, MYRON Srvc Supervisor: MCINTYRE, BRIAN MBU ID Emp #: 106009 **Job Personnel HES Emp Name** Exp Hrs Emp# HES Emp Name Exp Hrs Emp# **HES Emp Name** Exp Hrs Emp# BROADFOOT, RYAN 5.5 431899 **EVANS, JOSHUA Allen** 4.5 427571 HUTCHESON, RICKY 428969 4.5 LOPEZ, CARLOS 4.5 321975 MCINTYRE, BRIAN C 5.5 106009 **Equipment HES Unit#** Distance-1 way **HES Unit #** Distance-1 way **HES Unit #** Distance-1 way **HES Unit #** Distance-1 way 10219237 80 mile 10240245 80 mile 10244148 80 mile 10415642 80 mile 10897879 80 mile 6611U 80 mile Job Hours On Location Operating On Location **Date** Date Operating **Date** On Location Operating Hours Hours Hours Hours Hours Hours Total is the sum of each column separately TOTAL Job Times The state of the state of Formation Name Date Time Time Zone Formation Depth (MD) Top 13 - Nov - 2007 Bottom Called Out 12:00 CST Form Type BHST On Location 13 - Nov - 2007 14:30 CST Job depth MD 2707. ft Job Depth TVD 2707. ft Job Started 13 - Nov - 2007 16:35 CST Water Depth Wk Ht Above Floor 18. ft 13 - Nov - 2007 Job Completed 17:59 CST Perforation Depth (MD) From То Departed Loc 13 - Nov - 2007 19:45 CST Well Data Description New / Max Size ID Weight Thread Grade Top MD **Bottom** Top **Bottom** in Used pressure in lbm/ft MD TVD psig ft ft ft Surface Casing New 8.625 8.097 24. 8 RD (ST&C) Unknown 900 **Production Hole** 7.875 900. 2715. 8 RD (LT&C) **Production** New 5.5 15.5 5.012 J-55 2715. Casing Sales/Rental/3rd Party (HES) · 全国的 () Y UOM DEP.

EAKANSAS CORPORATION COMMISSION Description Qty | Qty uom Supplier SHOE, GID, 5-1/2 8RD 1 PLUG ASSY,3 WIPR LTH-DWN,5 1/2 CSG 1 BAFFLE ASSY - 5-1/2 8RD - LATCH-DOWN 1 CENTRALIZER ASSY - TURBO - API -10 EΑ CONSERVATION DIVISION OTY KIT, HALL WELD-A 1 EΑ OF THE SECTION Tools and Accessories Make Depth Type Size Qty **Type** Size Qtv Make Depth Type Make **Guide Shoe** Packer Top Plug Float Shoe Bridge Plug **Bottom Plug** Float Collar Retainer SSR plug set Insert Float Plug Container Stage Tool Centralizers Miscellaneous Materials · "秦文家"的"以下"。""。 a. Charles Gelling Agt Surfactant Acid Type Conc Conc Qty Conc % Treatment Fld Conc Inhibitor Conc Sand Type Size Qty Summit Version: 7.20.130 Tuesday, November 13, 2007 18:19:00

Cementing Job Summary

	tage/Plug #: 1						Y THE TOWN	D. Walter		
Fluid #	Stage Type	Fluid N	ame	Qty	Qty uom	Mixing Density Ibm/gai	Yield ft3/sk	Mix Fluid Gal/sk		Total Mix Fluid Gal/si
1	Water Pre-Flu	ısh		10.00	bbl	8.33	.0	.0	6.0	***
2	Mud Flush	MUD FLUSH - ZI - SB	M (13383)	10.00	bbl	8.4	.0	.0	.0	·
3	Lead Cement	ECONOCEM (TM) SYS	STEM (452992)	250.0	sacks	11.4	2.89	17.8	6.0	17.8
	0.25 lbm	POLY-E-FLAKE (1012	16940)							
	0.1 %	WG-17, 50 LB SK (100	003623)							
	17.804 Gal	FRESH WATER								
4	Tail Cement	HALCEM (TM) SYSTE	M (452986)	150.0	sacks	14.8	1.33	6.25	6.0	6.25
	0.5 %	HALAD(R)-322, 50 LB	(100003646)			· ···············				
	0.25 lbm	POLY-E-FLAKE (1012	16940)							
	6.245 Gal	FRESH WATER								
5	Water			66.228	bbl	8.33	.0	.0	6.0	
	Displacement									
and the state of t	lcůláted Valu	The state of the s	S			始建江 V	olumes	经外的特征的	"我"。"我 "	- Mr. 284
	ement	Shut In: Instant		eturns		Cement SI			Pad	
	Cement	5 Min		t Returns		Actual Dis	placeme	nt	Treatm	ent
	radient	15 Min	Spacer	Committee 2 accumus 1 1 1 1 1 1 1		Load and I	3reakdov	vn	Total J	ob
		entagen, seller nick mit den fel	Para de la companya d	Rates	*1 1.75				ir ir	计器时代数据
Circul		Mixing		Displac	ement			Avg. Jo	b	
	ent Left In Pipe			T== ==			T			
Frac R	ing # 1 @	ID Frac ring # 2 (Frac Ring			F	rac Ring#	4@	ID
Th	e Informatio	n Stated Herein Is Co		ner Represe	ntative S Letre			r # 4-3	10	ement vg.String

CIRCULATED (22) SACKS TO SURFACE

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 17 2008

CONSERVATION DIVISION
WICHITA, KS

Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 303233	Ship To #: 26112	27	Quote #:		Sales Order #: 5491898
Customer: KANSAS NAT	URAL GAS OPERATIN	G INC C	Customer Rep: L	ehning, Steve	e
Well Name: Spratt		Well #: #4-3		API/U	WI #: 15-055-21946
Field: HUGOTON	City (SAP): UNKNOW	N County/P	arish: Finney		State: Kansas
Legal Description: Section	on 1 Township 25S Rai	ge 34W			
Lat: N 0 deg. OR N 0 deg	. 0 min. 0 secs.	L	ong: E 0 deg. O	RE0deg.0	min. 0 secs.
Contractor: CHEYENNE	DRLG Rig/Pla	tform Name/N			
Job Purpose: Cement Pro	oduction Casing			Ticket Am	nount:
Well Type: Development	Well Job Ty	e: Cement Pro	oduction Casing		
Sales Person: HESTON,	MYRON Srvc Si	pervisor: MC	INTYRE, BRIAN	MBU ID E	mp #: 106009

The transfer was the second	The State of the S	La Alaka	Rate	Franks Sakasa	WELLER AND	A market 2	and was serviced to the party	
Activity Description	 In the control of the c		TOTAL TOTAL CONTROL OF	Vol	ume		ssure:	
Activity Description	Date/Time	Cht	, bbl/		Ы		sig 🔑	Comments :
			min	10 10 10 10	247 Sept 201			
		2. #* g	A Commence	Stage	" Total	Tubing	Casing	PART HATCH THE PART HATCH
Rig-Down Completed	11/13/2007			}	i			,
	10:25					<u> </u>		
Call Out	11/13/2007							
	12:00					j		
Safety Meeting - Service	11/13/2007							
Center or other Site	12:30					j		
Crew Leave Yard	11/13/2007						1	
	13:00						ł	
Arrive At Loc	11/13/2007						<u> </u>	
	14:35	j				į		
Assessment Of Location	11/13/2007							
Safety Meeting	14:40							
Safety Meeting - Pre Rig-Up	11/13/2007					f		
	14:45	ļ		i			Ĭ	
Rig-Up Equipment	11/13/2007							
5	14:50		i	1	v	R.	-	
Rig-Up Completed	11/13/2007					NSAS CORP	CEIVED DRATION COL	
	15:35	-		į			COL	MMISSIS
Wait on HES Materials to	11/13/2007	-				JAN	170	WAITING ON BULK
Arrive - Start Time	15:36	ĺ	1				' / 2008	WAITING ON BULK TRUCK
Wait on HES Materials to	11/13/2007					LONSERVA	701	BULK TRUCKS ON LOCATION
Arrive - End Time	16:00]	}			WICH	TA KE DIVISION	LOCATION
Safety Meeting - Pre Job	11/13/2007						100	ESCATION
	16:30	ł		}				1
Test Lines	11/13/2007							TEST LINES 3000 PSI
	16:35	1		1				1531 LINES 3000 PSI
Pump Spacer 1	11/13/2007		4		10		150.0	EDECI INVATED
Tamp space.	16:38		7	ļ	10		150.0	FRESH WATER
Pump Spacer 2	11/13/2007		4		10		160.0	MUDELLIOU
· · · · · · · · · · · · · · · · · · ·	16:43	ļ	7		10		100.0	MUD FLUSH
Pump Lead Cement	11/13/2007		5.25		129		85.0	250 500 500 1005
The second controlle	16:45	j	0.20		129	ļ	05.0	250 SKS ECONOCEM
Pump Tail Cement	11/13/2007		5.25		36		440.0	@ 11.4#GAL
. amp rail coment	17:3/2007		J.25		30		110.0	150 SKS HALCEM @
<u></u>	11.22							14.8#GAL

Sold To #: 303233

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Sales Order #:

5491898

SUMMIT Version:

7.20.130

Tuesday, November 13, 2007 06:19:00

Cementing Job Log

Activity Description	Date/Time	Cht	Rate bb/ min	Vol.	ume bl	p	ssure sig	Comments	
		#		Stage	Total	Tubing	Casing		
Clean Lines	11/13/2007 17:32		C 1 (5.25 V - 7 K 2	** * * * * * * * * * * * * * * * * * *	1.0000000000000000000000000000000000000		*********	TO PIT	
Drop Top Plug	11/13/2007 17:34							3 WIPER LATCH DOWN	
Pump Displacement	11/13/2007 17:35		4		63		90.0	FRESH WATER	
Cement Returns to Surface	11/13/2007 17:36		4		63		90.0	63 BBLS CIRCULATED TO PIT122 SKS	
Other	11/13/2007 17:46		2		63		240.0	122 010	
Bump Plug	11/13/2007 17:57		2		63		1250. 0	500 PSI-1250 PSI FINAL LANDING PRESSURE	
Check Floats	11/13/2007 17:58							FLOAT HELD	
End Job	11/13/2007 17:59								
Safety Meeting - Pre Rig-Down	11/13/2007 18:05								
Rig-Down Equipment	11/13/2007 18:10								
Safety Meeting - Departing Location	11/13/2007 19:45			-				•	

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