

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACG-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15-

093-21660000

ORIGINAL

County

Kearny, County, Kansas

App. C

SE 1/4

Sec. 21

Twp. 21

Rge. 35

W

Operator: License # #5269

Name: KANSAS NATURAL GAS, INC.

Address P.O. Box #815

Sublette, Kansas 67877

City/State/Zip Sublette, Ks. 67877

Purchaser: Williams- amoco Pipeline

Operator Contact Person: Mr. Steve Lehning

Phone (316) 675-8185

Contractor: Name: Cheyenne Drilling Co.

License: #5382

Wellsite Geologist: Mr. Ron Ostebuhr

Designate Type of Completion

XXX New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
XX Gas ENHR SIOW
 Dry Other (Core, W&W, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to inj/SWD
 Plug Back PSTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or inj?) Docket No. _____

8-21-2000 8-23-000 8-31-00"
Spud Date Date Reached TD Completion Date.

STATE CORPORATION COMMISSION
RECEIVED
OCT 0 2000
OIL & GAS CONSERVATION DIVISION

1320' Feet from (S)W (circle one) Line of Section

1320' Feet from (E)W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, (SE) NW or SW (circle one)

Lease Name Foster Well # #1-2

Field Name Hugoton-Field Chase Series

Producing Formation Chase Series

Equivalent Ground 3132.43 KB 3137.43'

Total Depth 2700' KB PSTD 2683' KB

Amount of Surface Pipe Set and Cemented at 215.27' Feet

Multiple Stage Cementing Collar Used? Yes XX No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 215'

feet depth to Surface w/ 175 ex cat.

Drilling Fluid Management Plan ALT 2 9/1 10/2/00
(Data must be collected from the Reserve Pit)

Chloride content NA Fluid volume NA bbls

Devatering method used Remove and backfill.

Location of fluid disposal if hauled offsite:

Operator Name K & L Tank Company

Lease Name Morris B-1 SWD license No. #8757

Quarter 19 Sec. 24 Twp. 31 Rge. E

County Finney County Docket No. C-16812 96,930-C

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, 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 on 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 TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

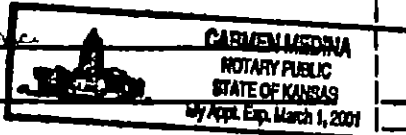
Signature Steven M. Lehning

Title Superintendent Date 9/7/00

Subscribed and sworn to before me this 7th day of September, 19 2000

Notary Public Carmen Medina

Date Commission Expires 3-1-2001



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
G Geologist Report Received
Distribution
KCC SWD/Rep NEPA
KGS Plug Other (Specify)

X

Operator Name Kansas Natural Gas. inc. Lease Name Foster Well # #1-2.
 County Kearny County Kansas
 Sec. 21 Twp. 21 Rge. 35
 East
 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests give interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	T/Cement	GL	+3137'
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	T/Permian	970'	+2167'
List All E.Logs Run: Gamma Ray-Dual Spaced Neutron Collar Log.		B/Stone Corral	2181'	+956'
		T/Hollenberg	2609'	+528'
		T/Herrington	2645'	+492'
		T/Krider	2665'	+472'
		T/Winfield	NR	
		Rotary total depth	2700'	+437'
		Log Total Depth	2683'	+454'
		Casing Total Depth	2691'	+446'
		Plug Back T.D.	2683'	+454'

CASING RECORD New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Case	12 1/4"	8 5/8"	24#	222'KB	Poz "C"	175	6% Gel.
Production Casing	7 7/8"	5 1/2"	14#	2699KB	Class C	650	2% SI
(Circulated Cement on Surface and Production Casing)							

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

Shots Per Foot	PERFORATION RECORD - Bridge Plug Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated.		(Amount and Kind of Material Used)	
(4)	2652'-2658'KB	6' zone	Acid: 1000 gal. of 15% MCA acid.	Depth
(4)	2666'-2672'KB	6' zone	Avg. 7.5 Bpm rate of injection.	
	(48 total Holes)		Frac: 13,000## of 16/30 Ottawa	
			and 150,000 SCF of Nitrogen Foam.	

TUBING RECORD

Size	Set At	Packer At	Liner Run
2 3/8" EUE	2671'GL	None	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SUD or Inj. Pending Pipeline connection Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil	Sbls.	Gas	Mcf	Water	Sbls.	Gas-Oil Ratio	Gravity
			NA	Pending Pipeline Connection				NA

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

<input type="checkbox"/> Open Hole	<input checked="" type="checkbox"/> Perforated	<input type="checkbox"/> Dually Comp.	<input type="checkbox"/> Cemented
<input type="checkbox"/> Other (Specify)			

Production Interval
2652'-2658'
2666'-2672'

FOSTER #1-2

API # 15-093-21660000

LOCATION: Approximate center of SE Quarter C-SE-1/4
Section 21-21S-35W
1320' From South Line of Section
1320' From East Line of Section
Kearny County, Kansas

ELEVATION: 3132.43' G.L. 3137.43' K.B. K.B.=5'
CONTRACTOR: Cheyenne Drilling Company (Rig #8) Hydraulic
PIT OPENED DATE: August 11, 2000
SPUD DATE: August 21, 2000 (2:00 p.m.)

8-21-00 **Casing Record for Surface Pipe:** Contacted Smyth Oilfield to haul out 5 joints of 8 5/8" - 24# JSS ERW 2700# casing. Cheyenne Drilling completed rig move and spudded hole at 2:00 p.m. Plan to drill 12 1/4" hole to approximately 222' KB and set 215' of 8 5/8" - 24# casing. Landed 8 5/8" about 16" below ground level. Drilling complete on surface hole at 4:45 p.m. Jet cellar and circulate hole to pit for 15 minutes to condition hole. Drop deviation gun. Trip out of hole with collars. Land drill bit. Hole was 1/2° off. Had welder weld Texas pattern guide shoe on bottom of first joint. Placed baffle insert in top collar of first joint. Install centralizer 13' from bottom of first joint. 2nd centralizer was on top collar of joint #3. 2 centralizers total. Welded three 1 1/2" straps on top collar of first joint. Tack weld guide shoe also. Surface casing tallied at 215.27' thread off and 216.27' thread on. Total of (5) joints of 8 5/8" - 24# JSS 8rd 2700# casing. Inside diameter was 7.971". Land pipe 16" below surface level.

Surface Casing Cement: Dowell rigging to cement surface at 5:20 p.m. **Note:** We did not drop a rubber plug on displacement on this well since we were so shallow were afraid we would not have enough weight to drill rubber plug out. Just displaced enough to leave 40' - 50' of cement in bottom of pipe.

Cement on surface consisted of leading with 50 sacks of 35/65 Poz "C" cement and 6% D-20 and 2% calcium chloride with 1/4# per sack of flo-cele and flakes. Tail cement called for 125 sacks of class "C" + 2% calcium chloride and 1/4# per sak flo-cele. Did not run rubber plug on this well but displaced cement to 40' left in 8 5/8" on bottom and shut valve in to let cure for 8 hours. Surface pipe completed at 6:00 p.m. Circulated approximately 27 sacks of cement back to pit. Plan to drill out cement about 2:00 a.m.

8-22-00 **Drill Out Procedures to T.D.:** Cheyenne Rig #8 commenced to drill out cement in 8 5/8" casing at 1:45 a.m. Drilling with 7 7/8" cone bit to T.D. Established by our geologist.

9:45 a.m. Drilling at 1367'. Drilled thru red beds and going to Glorietta formation. Plan to mud up for safety.

Contacted Smyth Oilfield to deliver out 66 joints of 5 1/2" casing to tally and prepare to run in hole when we reach T.D. Loaded casing collars on rack away from drilling rig due to hydraulic rig picking each joint of casing up and standing in derrick.

11:00 a.m. Drilling at 1466'. Have 5 1/2" casing tallied and laying on rack ready to go. Drilling thru Glorietta sands now and uping viscosity now.

7:00 p.m. Drilling at 2356'. Did not have to make a bit trip on this well.

8-23-00 T.D. at 2700' KB. KB = 5'. Bottom hole at 2:00 a.m. Circulated to condition hole on bottom for 45 minutes.

3:00 a.m. Tripping out of hole with drill pipe after we dropped deviation gun. All materials out of hole

at 4:45 a.m. Hole was $1/2^\circ$ off on sure shot.

Rigging up to run 5 1/2" casing. Installed cement guide shoe on bottom of first joint and thread-locked. Thread-locked first collar of first joint also. Installed latch down baffle insert in cement guide shoe. Ran 64 joints of 5 1/2" - 14# casing. Ran total of (8) centralizers. Top of joint #1 - #3 - #5 - #8 - #11 - #26 - #29 - #59. Used Cheyenne landing joint and will have to cut casing off. Total pipe in hole was 2711.35' threads off and 2724.15' threads on. Circulated casing one foot off bottom of hole for 30 minutes to condition hole. Had 2 joints left on location to take back to lakin yard. Will need to have welder come out after rig moves and weld on a half-bore collars on top of 5 1/2" casing with female top. Pipe is set at 2694' ground level, 2699' KB.

6:15 a.m. **Cement Long String Casing.** ~~Installed casing one foot off bottom. Had Dowell hook onto casing and had to circulate casing down about 5'. Cut off casing was about 18' long. Circulated to~~ ~~about 5' for 30 minutes then began cement job. 5 1/2" casing is set at 2699' KB and 2694' Ground~~

~~Dowell mixing to cement at 6:45 a.m. Long string cement called for 500 sacks of lead with 35/65 P02 "C" and 6% Si with 1 1/4% per sack of 629 celloflake. Tail cement called for 150 sacks of class "C" and 2% Si with 1 1/4% per sack of 629 cello-flake. Displaced rubber latch-down plug with 250 gallons of 10% acetic acid and fresh water to clean up. Circulated approximately 180 sacks of cement to pit. Will let cement cure for 4-5 days then begin completion work. Job completed at 8:00 a.m. Released drilling rig.~~

8-28-00

Log: Perforate: Acidize

Border Line moved rig in on location Friday to rig up to log well. Install 5 1/2" orbit valve on wellhead. Brand X weld half bore collar on well last week. Doran installed surface vent equipment.

7:45 a.m. Halliburton on location to log and perforate, perforations are .50" shots. Will not run cement bond log on well since cement job on casing went good.

8:20 a.m. Halliburton running a gamma ray collar log to locate collars. Halliburton logged T.D. at 2683' KB. KB = 5'.

Had Halliburton log hole full of fluid. After log job will have rig crew swab down to 1500' of fluid and leave rest to perforate in.

Perforation Scheme; Log T.D. = 2683' KB. Will shoot 2 - six foot perforation guns with 4 - shots per foot. Will have a total of 48 holes at .50" in diameter. Perforate 4 shots per foot at 2666' - 2672' and 2652' - 2658'. Shot in 10% acetic acid so that was first fluid to hit formation.

8-28-00

Acid Breakdown: 2:00 p.m. Begin acid job.

Halliburton acidized well with 1000 gallons of 15% MCA - mud clear out acid down casing. Took 76 bbls to load hole and ran 100 ball sealers to try and ball off. Hole loaded and went to 2000#, wait couple of minutes pump again, went to 2300#, let set couple of minutes, pump again to 2500#, let set, pump again at 2250# and broke down to "0". Established rate at 7.4 BPM at 68#. Average testing pressure was 60#. Well went on instant vacuum. Total fluid to recover is 88 barrels. Have Border Line rig up to swab casing dry. We flared gas after perforation job and had some show of gas. Fluid level was at 1100', made 10 swab runs and swab back 44 bbls., wait 15 minutes and make another run but did not get any fluid. Shut well in overnight for frac job tomorrow. Release Border Line to rig down at 4:50 p.m.

8-29-00

Halliburton on location for frac job, frac job called for 13000# of 16/30 ottawa sand at 8 barrels per minute rate. Sand will be ramped at 0.5# to 2.5# p/gallon. Frac calls for 6000 gallon pad and frac with 9000 gallons of SLF at 1/2# to 2 1/2" per gallon. Flush with 2907 gallons of 2% KCL water. Had Brady haul out 200 barrels of 2% KCL. Other materials in well frac was 5375 gallons of water frac "G", 30# mix, 38 gallons of AQF-2, 6 pounds of GBW-3 and 1# of BE-38 and nitrogen. Nitrogen was 150000 SCF. Frac job went as designed and appeared on computer to go out in formation. Finished frac at 11:30 a.m. 5 minutes S/I 851# and 10 minute S/I was 824#. Open well to pit thru 1 - 2" flow line and let blow nitrogen off and flow freely. Plan to move rig in tomorrow and begin completion work. Contacted Smyth Oil and Gas today and have them set up to lay 2" poly pipe on Thursday and call Don' Electric to begin laying electric line on Thursday also Sunrise will have tubing and rods on location

tomorrow.

8-30-00 Border Line on location at 9:15 a.m. to rig up to complete well. Well has no show of gas at this time. Rig up to run sand pump in hole to tag sand and clean out. Tag sand at 2658'. Have approximately 20' of sand fill-up at this time.

10:30 a.m. Swabbing until sand pump is brought to location. Sunrise had 88 joints of tubing on location this morning and will bring out 5/8" rod string. Fluid level was at 2100' on first run.

11:30 a.m. Have sand pump on location. Fluid level at 2600' and have swabbed back 24 barrels. Have good show of gas.

12:30 p.m. Have sand pumped 30 gallons of sand and 17 ball sealers. We feel these are 16' of soft cement on bottom from cementers washing up after cement job. Will try to clean some of that out.

1:10 p.m. Have made 5 runs getting only 1 1/2 gallons of sand. Lay sand pump down and swab casing. Fluid level at 2100'.

3:15 p.m. Have well swabbed dry, swab back total of 36 barrels today. Tag bottom with sand pump and had 1' of fill, clean out and left well flowing to pit. Shut rig down at 3:30 p.m.

8-31-00 Border Line on location at 7:45 a.m. Left well open to pit thru 2 - 2" flow lines. Well has some gas flow with no fluid. Run in hole to check for sand fill, fluid level at 2100'. Had 2 gallons sand on first run, run sand pump again and check hole depth, we are at 2697'. Rig up swab tools and swab casing. On first swab run fluid level at 1900', second run at 1200' scattered.

9:40 a.m. Have well swabbed dry. The last 3 pulls were made off bottom, have swabbed back 12 barrels. Rig up sand pump and clean to bottom. Made 3 runs with sand pump and brought back 1 gallon of sand. Drop 40 ball sealers in casing to mark bottom hole, rig up to run tubing. Ran in with 1 - 2 3/8" x 2' open end mud anchor, 1 - 2 3/8" x 1.10' seat nipple, 86 joints 2 3/8" EUE 8rd tubing 2670.67' this puts us 3' below bottom set of perfs with seat nipple. Have 15' for rat hole.

11:45 a.m. Have tubing on bottom. Rig up to run pump and rods. Prime and run new 2" x 1 1/2" x 10' RWBC pump, 106 - 5/8" rods, 1 - 5/8" x 8' pony rod, 1 - 5/8" x 6' pony rod, 1 - 5/8" x 2' pony rod and 1 1/8" x 11' polish rod. Have pump on bottom at 1:30 p.m. Release rig to rig down.

Mud anchor on this well is open ended!

Smyth Oilfield on location at 10:30 a.m. along with Don's Electric to lay water and electric lines.

2:00 p.m. Smyth making tie-in to wellhead with water line and Don's Electric about 30' east of wellhead with electric line.

Materials in Well:

- 1 - 2 3/8" x 2' Mud Anchor (Warehouse)
- 1 - 2 3/8" x 1.10' Seat Nipple (Sunrise)
- 86 Joints of 2 3/8" EUE 8RD New Tubing (2670.67') (Sunrise)
- 1 - 1" x 6" Strainer Nipple (Sunrise)
- 1 - 2" x 1 1/2" x 10' RWBC Pump (Sunrise)
- 106 - 5/8" Sucker Rods (Sunrise)
- 1 - 5/8" x 8' Pony Rod (Warehouse)
- 1 - 5/8" x 6' Pony Rod (Warehouse)
- 1 - 5/8" x 2' Pony Rod (Warehouse)
- 1 - 1 1/8" x 11' Tuffer Polish Rod w/2 Clamps (Sunrise)



Cementing Service Report

(CEMENT SURFACE)

Well		Location (Legal)		Dowell Location		Job Start	
FOSTER #1 2		SEC 21-21S-35W		Ulysses, KS		8/21/00	
Field		Formation Name/Type		Deviation		Well TVD	
KEARNEY				0		222 ft	
County		State/Province		BHP		Well MD	
KEARNEY		KANSAS		0 psi		222 ft	
Rig Name		Drilled For		Service Via		Well MD	
CHEYENNE 8		Gas		Land		222 ft	
Offshore Zone		Well Class		Well Type		Well TVD	
		New		Exploration		222 ft	
Drilling Fluid Type		Max. Density		Plastic Viscosity		Well MD	
Bentonite		9.2 lb/gal		34 cp		222 ft	
Service Line		Job Type		Casing/Liner		Well TVD	
Cementing		Cem Surface Casing		Depth, ft		222	
Max. Allowed Tubing Pressure		Max. Allowed Ann. Pressure		Size, in		8.63	
1000 psi		0 psi		Weight, lb/ft		24	
Wellhead Connection		Perforations/Open Hole		Grade		Thread	
8 5/8" swage		Top, ft		Bottom, ft		spf	
Service Instructions		No. of Shots		Total Interval		Diameter	
8 5/8" surface @ approx 325' in 12 1/4" hole		0		0 ft		0 in	
50 sk lead @ 12.3 ppg		0		0		0	
125 sk tail @ 14.8 ppg		0		0		0	
Turnkey surface casing for Kansas Petroleum		Treat Down		Displacement		Packer Type	
		Casing		11.5 bbl		None	
		Tubing Vol.		Casing Vol.		Annular Vol.	
		0 bbl		0 bbl		0 bbl	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>		Casing Tools		Squeeze Job	
LR Pressure: 150 psi		Shoe Type: Guide		Squeeze Type			
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth: 222 ft		Tool Type:	
No. Centralizers: 2		Top Plugs: 0		Bottom Plugs: 0		Stage Tool Type: none	
Cement Head Type: swage		Stage Tool Depth: 0 ft		Tool Depth: 0 ft		Tail Pipe Size: 0 in	
Job Scheduled For: 8/21/00 15:00		Arrived on Location: 8/21/00 15:15		Leave Location: 8/21/00 18:30		Collar Type: Auto-Fill	
						Collar Depth: ft	
						Sqz Total Vol: 0 bbl	
Time	Cm Vol	Density	Pressure (1)	Regret Volume	Tool Flowrate	Message	
17:17	0	0	0	0	0	START PLAYBACK	
17:17	0	8.36	4.58	0	0		
17:18	0	8.34	0	0	0		
17:18	0	8.34	0	0	0		
17:18	0	8.32	4.58	0	0		
17:18	0	8.33	0	0	0		
17:19	0	8.36	0	0	0		
17:19	0	8.36	4.58	0	0		
17:19	0	8.31	0	0	0		
17:19	0	8.34	0	0	0		
17:20	0	8.36	0	0	0		
17:20	0	8.34	0	0	0		
17:20	0	8.36	0	0	0		
17:21	0.317	8.15	91.58	0.317	4	RECEIVED	
17:21	1.77	8.18	192.3	1.77	6.21	STATE CORPORATION COMMISSION	
17:21	3.34	8.23	187.7	3.34	6.21	OCT 4 2000	
17:21	4.91	8.18	192.3	4.91	6.24		
17:22	6.48	8.13	192.3	6.48	6.24		
17:22	8.05	8.01	169.4	8.05	6.24	CONSERVATION DIVISION	
17:22	9.62	8.83	169.4	9.62	6.24	Ulysses, Kansas	
17:22	11.18	11.09	283.9	11.18	6.15		
17:23	12.72	12.08	320.5	12.72	6.12		

Well			Field			Service Date		Customer	Job Number
FOSTER #1 #2			KEARNEY					CHEYENNE DRILLING	20174301
Title	GainVol	Density	Pressure UI	Reset Volume	Total Volume			Message	
24 hr	bbf	ppg	psi	bbf	bbm				
17:23	14.28	12.79	357.1	14.28	6.21	0	0		
17:23	15.84	12.22	334.2	15.84	6.21	0	0		
17:23	17.41	11.47	297.6	17.41	6.21	0	0		
17:24	18.97	12.4	329.7	18.97	6.21	0	0		
17:24	20.54	11.85	320.5	20.54	6.21	0	0		
17:24	22.11	11.17	288.5	22.11	6.21	0	0		
17:24	23.67	11.75	311.4	23.67	6.18	0	0		
17:25	25.23	11.53	293.	25.23	6.18	0	0		
17:25	26.8	11.36	288.5	26.8	6.21	0	0		
17:25	28.36	13.76	398.4	28.36	6.15	0	0		
17:25	29.9	14.03	407.5	29.9	6.18	0	0		
17:26	31.46	13.2	366.3	31.46	6.21	0	0		
17:26	33.03	13.68	393.8	33.03	6.18	0	0		
17:26	34.57	14.54	467.	34.57	6.18	0	0		
17:26	36.13	10.93	265.6	36.13	6.21	0	0		
17:27	37.7	12.01	311.4	37.7	6.21	0	0		
17:27	39.26	14.18	416.7	39.26	6.18	0	0		
17:27	40.81	15.33	512.8	40.81	6.15	0	0		
17:27	42.37	14.57	439.6	42.37	6.18	0	0		
17:28	43.92	15.06	485.3	43.92	6.15	0	0		
17:28	45.48	14.29	425.8	45.48	6.21	0	0		
17:28	47.05	14.1	412.1	47.05	6.18	0	0		
17:28	48.6	15.33	503.7	48.6	6.12	0	0		
17:29	50.16	13.76	389.2	50.16	6.21	0	0		
17:29	51.72	13.7	384.6	51.72	6.18	0	0		
17:29	53.28	14.78	457.9	53.28	6.18	0	0		
17:29	54.84	14.65	448.7	54.84	6.18	0	0		
17:30	56.4	15.	476.2	56.4	6.18	0	0		
17:30	57.95	13.88	352.6	57.95	5.9	0	0		
17:30	57.95	13.88	352.6	57.95	5.9	0	0	[Reset Volume]=0 bbl	
17:30	58.37	12.68	36.63	0.293	1.76	0	0		
17:30	59.13	12.81	27.47	1.06	3.22	0	0		
17:31	59.95	13.	22.89	1.87	3.22	0	0		
17:31	60.76	12.89	32.05	2.69	3.22	0	0		
17:31	61.57	12.79	45.79	3.5	3.24	0	0		
17:31	62.39	5.	45.79	4.32	3.24	0	0		
17:32	63.21	5.	45.79	5.14	3.27	0	0		
17:32	64.03	5.	50.37	5.96	3.24	0	0		
17:32	64.85	5.	59.52	6.77	3.22	0	0		
17:32	65.65	5.	64.1	7.58	3.16	0	0		
17:33	66.45	5.	68.68	8.38	3.19	0	0		
17:33	67.25	5.	73.26	9.17	3.16	0	0		
17:33	68.06	5.	82.42	9.98	3.22	0	0		
17:33	68.86	5.	82.42	10.79	3.19	0	0		
17:34	69.66	5.	82.42	11.58	3.13	0	0		
17:34	70.44	5.	82.42	12.37	3.13	0	0		
17:34	70.72	5.	36.63	12.65	0.	0	0		
17:34	70.72	5.	41.21	12.65	0.	0	0		
17:35	70.72	5.	36.63	12.65	0.	0	0		
17:35	70.72	5.	-4.58	12.65	0.	0	0		
17:35	70.72	5.	0.	12.65	0.	0	0		
17:35	70.72	5.	0.	12.65	0.	0	0	STOP PLAYBACK	

Well FOSTER #1 #2		Field KEARNEY			Service Date	Customer CHEYENNE DRILLING	Job Number 20174391
Type	Con Vol	Density	Pressure UT	Reset Volume	To Flow Rate	Message	
24 hr	bbbl	ppg	psf	bbbl	bbbl		
Post Job Summary							
Average Pump Rates, bpm				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
6	0	0	6	49	0	10	0
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Broakdown	Type	Volume	Density
200	200	150	0	0		0 bbl	0 lb/gal
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	
0 %	49 bbl		11.5 bbl	70 °F	<input type="checkbox"/> Washed Thru Perfs	To	0 ft
Customer or Authorized Representative Domoso Castillo			Dowell Supervisor Dave Brawley			<input type="checkbox"/> Circulation Lost	<input type="checkbox"/> Job Completed

(CEMENT LONG STRING)



Cementing Service Report

Schlumberger Dowell				Customer CHEYENNE DRILLING				Job Number 20174401											
Well FOSTER 1-2				Location (legal) 21-21S-35W				Dowell Location Ulysses, KS				Job Start 8/23/00							
Field HUGOTON				Formation Name/Type CHASE				Deviation °		Bit Size 7.88 in		Well MD 2,700 ft		Well TVD 2,700 ft					
County KEARNY				State/Province KS				BHP psi		BHST 100 °F		BHDT 80 °F		Pore Press. Gradient psi/ft					
Rig Name CHEYENNE 8		Drilled For Gas		Service Via Land		Casing/Liner													
						Depth, ft 2711		Size, in 5.5		Weight, lb/ft 14		Grade		Thread 8rd					
Offshore Zone		Well Class New		Well Type Development		Tubing/Drill Pipe													
						Depth, ft		Size, in		Weight, lb/ft		Grade		Thread					
Drilling Fluid Type Bentonite				Max. Density 9.2 lb/gal		Plastic Viscosity 7 cp		Tubing/Drill Pipe											
						Depth, ft		Size, in		Weight, lb/ft		Grade		Thread					
Service Line Cementing		Job Type Cem Prod Casing		Casing Tools						Squeeze Job									
Max. Allowed Tubing Pressure 2000 psi		Max. Allowed Ann. Pressure psi		Wellhead Connection 5 1/2" HS&M		Perforations/Open Hole													
						Top, ft		Bottom, ft		spf		No. of Shots		Total Interval ft					
Service Instructions 5 1/2" CASING SET @ 2,700' IN 7 7/8" HOLE 500 SK LEAD @ 12.3 PPG 150 SK TAIL @ 14.8 PPG FLUSH W/ 250 GAL 10% ACETIC FOLLOWED BY 2% KCl WATER														Diameter in					
						Treat Down Casing		Displacement 66.1 bbl		Packer Type None		Packer Depth ft							
						Tubing Vol. bbl		Casing Vol. 66.1 bbl		Annular Vol. 83 bbl		Open Hole Vol. bbl							
Casing/Tubing Secured <input checked="" type="checkbox"/>				1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>				Casing Tools				Squeeze Job							
LR Pressure: 694 psi				Pipe Rotated <input type="checkbox"/>				Pipe Reciprocated <input type="checkbox"/>				Shoe Type: Auto-Fill				Squeeze Type			
												Shoe Depth: 2700 ft				Tool Type:			
No. Centralizers: 8				Top Plugs: 1				Bottom Plugs: 0				Stage Tool Type				Tool Depth: 0 ft			
Cement Head Type: Single												Stage Tool Depth: 0 ft				Tail Pipe Size: 0 in			
Job Scheduled For: 8/22/00				Arrived on Location: 8/23/00 3:25				Leave Location: 8/23/00 9:00				Casing Type: Other				Tail Pipe Depth: 0 ft			
												Casing Depth: 2700 ft				Sqa Total Vol: 0 bbl			
Time		Cum Vol		Density		Pressure, M1		Pump		Reset Vol		Message							
24 hr clock		bbl		ppg		psi		bpm		bbl									
6:54		0		0		0		0		0		START ACQUISITION							
6:54		0.		-6.25		-3800		0.		0.									
6:55		0.		-6.25		-3500		0.		0.		Pressure Test Lines							
6:55		0.		-6.25		-3800		0.		0.		[Reset Vol]=0 bbl							
6:55		0.		-6.25		-3800		0.		0.		Start cw 7							
6:55		0.007		0.		0.		0.		0.									
6:56		3.49		7.92		192.3		4.36		3.48									
6:57		7.88		8.21		137.4		4.42		7.88									
6:58		7.88		8.21		137.4		4.42		7.88		Start Pumping Water							
6:58		12.28		8.08		201.5		4.36		12.28									
6:59		12.28		8.08		201.5		4.36		12.28		[Reset Vol]=0 bbl							
6:59		12.28		8.08		201.5		4.36		12.28		Start Mixing Lead Slurry							
7:00		17.99		11.39		325.1		5.73		2.69									
7:01		23.73		12.55		348.		5.7		8.42									
7:02		29.47		12.42		338.8		5.7		14.16									
7:03		35.21		12.47		325.1		5.73		19.9									
7:04		40.96		12.25		302.2		5.73		25.65									
7:05		46.7		12.1		311.4		5.73		31.39									
7:06		52.44		12.29		306.8		5.73		37.13									
7:07		58.18		11.96		306.8		5.7		42.87									
7:08		63.93		12.45		320.5		5.7		48.62									
7:09		69.66		11.78		288.5		5.7		54.36									

Well			Field			Service Date		Customer	Job Number
FOSTER #1-2			HUGOTON					CHEYENNE DRILLING	20174401
Time	CumVol	Density	Pressure UI	Pump	Reset Vol	Message			
24 hr clock	bbl	ppg	psi	bpm	bbl				
7:10	75.4	12.52	315.9	5.73	60.1	0	0		
7:11	81.16	12.21	293.	5.68	65.85	0	0		
7:12	86.9	12.15	279.3	5.7	71.59	0	0		
7:13	92.64	12.42	302.2	5.7	77.33	0	0		
7:14	98.37	12.72	329.7	5.73	83.07	0	0		
7:15	104.1	12.35	302.2	5.7	88.82	0	0		
7:16	109.9	12.05	288.5	5.7	94.56	0	0		
7:17	115.6	12.36	302.2	5.73	100.3	0	0		
7:18	121.3	12.32	297.6	5.7	106.	0	0		
7:19	127.1	12.42	302.2	5.7	111.8	0	0		
7:20	132.8	12.41	297.6	5.7	117.5	0	0		
7:21	138.6	12.5	302.2	5.73	123.3	0	0		
7:22	144.3	12.48	302.2	5.73	129.	0	0		
7:23	150.1	12.4	297.6	5.73	134.8	0	0		
7:24	155.8	12.35	293.	5.73	140.5	0	0		
7:25	161.5	11.99	274.7	5.7	146.2	0	0		
7:26	167.3	12.78	325.1	5.73	152.	0	0		
7:27	173.	12.38	297.6	5.7	157.7	0	0		
7:28	178.8	12.55	302.2	5.73	163.5	0	0		
7:29	184.5	12.17	288.5	5.73	169.2	0	0		
7:30	190.3	12.04	283.9	5.7	175.	0	0		
7:31	196.	12.77	288.5	5.7	180.7	0	0		
7:31	196.	12.77	288.5	5.7	180.7	0	0	[Reset Vol]=0 bbl	
7:31	196.	12.77	288.5	5.7	180.7	0	0	Start Mixing Tail Slurry	
7:32	201.7	15.4	448.7	5.73	3.73	0	0		
7:33	207.5	15.09	393.8	5.73	9.47	0	0		
7:34	213.2	14.75	384.6	5.68	15.21	0	0		
7:35	219.	14.99	393.8	5.7	20.96	0	0		
7:36	224.7	14.74	361.7	5.7	26.7	0	0		
7:37	230.4	15.5	416.7	5.7	32.44	0	0		
7:38	235.7	5.72	-13.74	0.	37.67	0	0		
7:39	235.7	11.58	-4.58	0.	37.67	0	0		
7:40	238.1	9.57	169.4	5.7	40.08	0	0		
7:41	244.2	8.39	210.6	6.68	46.17	0	0		
7:42	247.	8.49	-22.89	0.	48.99	0	0		
7:43	247.	8.49	-4.58	0.	48.99	0	0		
7:44	248.5	8.12	68.68	3.86	50.52	0	0		
7:45	252.4	8.16	73.26	3.86	54.41	0	0		
7:46	256.9	8.19	178.6	5.73	58.85	0	0		
7:46	256.9	8.19	178.6	5.73	58.85	0	0	Drop Top Plug	
7:46	256.9	8.19	178.6	5.73	58.85	0	0	Start Displacement	
7:47	256.9	8.19	178.6	5.73	58.85	0	0	[Reset Vol]=14 bbl	
7:47	262.6	8.17	192.3	5.7	64.6	0	0		
7:48	268.3	8.1	247.3	5.7	19.64	0	0		
7:48	268.3	8.1	247.3	5.7	19.64	0	0	Returns at Surface	
7:49	274.1	8.12	320.5	5.7	25.39	0	0		
7:50	279.8	8.1	407.5	5.7	31.13	0	0		
7:51	285.6	7.94	512.8	5.7	36.86	0	0		
7:52	291.3	17.45	622.7	5.73	42.6	0	0		
7:53	297.	7.92	714.3	5.7	48.34	0	0		
7:54	300.9	8.52	613.6	1.87	52.25	0	0		
7:55	302.8	8.58	641.	1.87	54.13	0	0		
7:56	304.7	8.58	677.7	1.87	56.01	0	0		
7:57	306.6	8.58	714.3	1.85	57.89	0	0		

Well			Field			Service Date		Customer		Job Number	
FOSTER #1-2			HUGOTON					CHEYENNE DRILLING		20174401	
Time	CumVol	Density	Pressure UI	Pump	React Vol	Message					
24 hr clock	bbbl	ppg	psi	bpm	bbbl						
7:58	308.5	8.58	746.3	1.85	59.77	0	0				
7:59	310.3	8.58	778.4	1.85	61.64	0	0				
8:00	312.2	8.58	810.4	1.87	63.52	0	0				
8:01	312.2	8.58	810.4	1.87	63.52	0	0	Bump Top Plug			
8:01	313.6	8.72	1158	0.	64.91	0	0				
8:02	313.6	8.72	1158	0.	64.91	0	0	Bleed Off Pressure			
8:02	313.6	8.76	485.3	0.	64.91	0	0				
8:03	313.6	8.78	0.	0.	64.91	0	0				
Post Job Summary											
Average Pump Rates, bpm					Volume of Fluid Injected, bbl						
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2				
5	0	0	5.7	147	0	15	0				
Treating Pressure Summary, psi					Breakdown Fluid						
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density				
1163	0	200	1200	0		0 bbl	0 lb/gal				
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface? Volume		<input type="checkbox"/> Washed Thru Perfs To					
0 %	314 bbl	66.2 bbl	75 °F	43 bbl		0 ft					
Customer or Authorized Representative			Dowell Supervisor			<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed			
Domoso Castillo			Brennon Fica								

ORIGINAL

Schlumberger
Dowell

Service Order

21-Aug-00

Customer CHEYENNE DRILLING		Person Taking Call Stephen Cole		Dowell Location Ulysses, KS		Order Date 8/3/00		Job Number 20174391	
Well Name and Number FOSTER #1 2		Legal Location SEC 21-21S-35W		Field KEARNEY		County KEARNEY		State/Province KANSAS	
Rig Name CHEYENNE 8		Well Age New		Sales Engineer Stephen Cole		Job Type Cem Surface Casing			
Time Well Ready: 8/21/00 3:00 PM		Deviation 0		Bit Size 12.3 in		Well MD 0 ft		Well TVD 0 ft	
BHP 0 psi		BHST 0 °F		BHCT 0 °F					
Treat Down Casing		Packer Type Casing		Packer Depth 0 ft		Wellhead Connection 8 5/8" swage		HHP on Location 0	
Max Allowed Pressure 0		Max Allowed Ann Pressure 0							
Casing					Services Instructions: 8 5/8" surface @ approx 325' in 12 1/4" hole 50 sk lead @ 12.3 ppg 125 sk tail @ 14.8 ppg Turnkey surface casing for Kansas Petroleum				
Depth, ft	Size, in	Weight, lb/ft	Grade	Thread					
325	8.63								
0	0	0							
Tubing					Extra Equipment: 8 5/8" Office fill insert float 3 centralizers top rubber plug- not plastic 1 threadlock kit				
Depth,	Size, in	Weight, lb/ft	Grade	Thread					
0	0	0							
0	0	0							
Perforated Intervals									
Top, ft	Bottom, ft	spf	No. of Shots	Total Interval					
0	0	0	0	0 ft					
0	0	0	0	Diameter					
0	0	0	0	0 in					

Contact	Voice	Mobile	FAX	Notes
Domoso Castillo	RIG8-272-2032	316-272-1393		TOOL PUSHER, RIG 8
Stephen Cole	316-624-8432	405-880-3396	316-624-8432	DOWELL
Wray Valentine	316-277-2062		316-277-2094	DRILLING MGR, GARDEN CITY

No quick connect head, take screw in type head
Take RUBBER plug, not plastic

(FOSTER #1-2)
SURFACE CEMENT
8 5/8" - 24#
8-21-00

Directions:
25N to Lakin, 16 north, 6 east, 2 north, 1/4 west, north into.

CONSERVATION DIVISION
Wichita, Kansas

RECEIVED
STATE CORPORATION COMMISSION
SEP 08 2000

Comments:

Fluid Systems:

LEAD			
50 SK 35:65(POZ/C) + 6% D20 + 2% S1 + 1/4 PPS D29			
Density:	12.3 lb/gal	Thickening Time:	
Yield:	2.10 ft ³ /sk	Viscosity:	cp
H2O Mix:	11.66 gal/sk	Break Time:	
H2O:	583 gal	Eq. Sack Weight:	88.75 lb
Dowell Code	Conc/ Amount	Total Quantity	
D029	0.25 lbs/sk	12.5	
S001	2 % BWOB	88.75	
D020	6 % BWOB	266.25	
D132	27.65 lbs/sk	1382.5	
D903 'C'	61.1 lbs/sk	3055	

TAIL			
125 SK C + 2% S1 + 1/4 PPS D29			
Density:	14.8 lb/gal	Thickening Time:	
Yield:	1.32 ft ³ /sk	Viscosity:	cp
H2O Mix:	6.36 gal/sk	Break Time:	
H2O:	795 gal	Eq. Sack Weight:	94 lb
Dowell Code	Conc/ Amount	Total Quantity	
D029	0.25 lbs/sk	31.25	
S001	2 % BWOB	235	
D903 'C'	94 lbs/sk	11750	

ORIGINAL

8-23-00
(LONG STRING CEMENT JOB)



Service Order

22-Aug-00

Customer CHEYENNE DRILLING		Person Taking Call Stephen Cole		Dowell Location Ulysses, KS		Order Date 8/21/00		Job Number 20174401	
Well Name and Number FOSTER 1-2		Legal Location 21-21S-35W		Field HUGOTON		County KEARNY		State/Province KS	
Rig Name CHEYENNE 8		Well Age New		Sales Engineer Stephen Cole		Job Type Cem Prod Casing			
Time Well Ready: 8/22/00		Deviation		Bit Size 7 88 in		Well MD 2,670 ft		Well TVD 2,670 ft	
Treat Down Casing		Packer Type None		Packer Depth ft		Wellhead Connection 5 1/2" HS&M		IHP on Location 0	
						Max Allowed Pressure psi		BHST 100 °F	
								BHCT 80 °F	

Casing				
Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
2670	5.5			8RD

Tubing				
Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
0	0	0		
0	0	0		

Perforated Intervals				
Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft Diameter in

Services Instructions:
 5 1/2" CASING SET @ 2,700' IN 7 7/8" HOLE
 500 SK LEAD @ 12.3 PPG
 150 SK TAIL @ 14.8 PPG
 FLUSH W/ 250 GAL 10% ACETIC FOLLOWED BY 2% KCI WATER

Extra Equipment:
 5 1/2"
 ORFICE FILL SHOE
 INSERT W/ LATCH IN WIPER PLUG
 8 CENTRALIZERS
 1 STOP RING (CENTRALIZER ON MIDDLE 1ST JOINT, THEN EVERY COLLAR)
 1 THREADLOCK

Contact	Voice	Mobile	FAX	Notes
Domoso Castillo	RIG8-272-2032	316-272-1393		TOOL PUSHER
Wray Valentine	316-277-2062		316-277-2094	DRLG MGR
Stephen Cole	316-624-8432	405-880-3396	316-624-8432	DOWELL

Notes:

NO SHOE VOLUME. SHOE IS ON BOTTOM OF CASING
 BE CAREFUL WITH DISPLACEMENT, NO WATER AHEAD OF PLUG
 MANUALLY STUFF THE PLUG, MAKE SURE YOU HAVE ROOM
 IF NOT ENOUGH ROOM TO STUFF PLUG, SET THE SLIPS. DISCUSS PLANS WITH DRILLER

Directions:

Lakin - 16 N - 6E - 2 N - 14 W - Vinto

Other Notes:

THE INSERT CAN BE SCREWED INTO THE ORFICE FILL SHOE, THEN THE SHOE PUT ON THE CASING WITHOUT PROBLEM, PER MIKE MORGAN (WEATHERFORD)

Comments:

(LONG STAINING CEMENT)

Fluid Systems:

FLUSH			
250 GAL 10% ACETIC, FIRST FLUID PUMPED ON FLUSH			
<i>Density:</i>	lb/gal	<i>Thickening Time:</i>	
<i>Yield:</i>	ft ³ /sk	<i>Viscosity:</i>	cp
<i>H2O Mix:</i>	0 gal/sk	<i>Break Time:</i>	
<i>H2O:</i>	250 gal	<i>Eq. Sack Weight:</i>	0 lb
Dowell Code	Concl Amount	Total Quantity	
L401	130 gal/1000 gal	32.5	
WATER	870 gal/1000 gal	217.5	

SPACER			
10 BBL CW7 SPACER			
<i>Density:</i>	lb/gal	<i>Thickening Time:</i>	
<i>Yield:</i>	ft ³ /sk	<i>Viscosity:</i>	cp
<i>H2O Mix:</i>	0 gal/sk	<i>Break Time:</i>	
<i>H2O:</i>	500 gal	<i>Eq. Sack Weight:</i>	0 lb
Dowell Code	Concl Amount	Total Quantity	
D122A	10 gal/1000 gal	5	

FLUSH2			
2 GPT L64, FOR FLUSH WATER			
<i>Density:</i>	lb/gal	<i>Thickening Time:</i>	
<i>Yield:</i>	ft ³ /sk	<i>Viscosity:</i>	cp
<i>H2O Mix:</i>	0 gal/sk	<i>Break Time:</i>	
<i>H2O:</i>	2500 gal	<i>Eq. Sack Weight:</i>	0 lb
Dowell Code	Concl Amount	Total Quantity	
L064	2 gal/1000 gal	5	

TAIL			
150 SK C + 2% S1 + 1/4 PPS D29			
<i>Density:</i>	14.8 lb/gal	<i>Thickening Time:</i>	2:00
<i>Yield:</i>	1.34 ft ³ /sk	<i>Viscosity:</i>	cp
<i>H2O Mix:</i>	6.36 gal/sk	<i>Break Time:</i>	
<i>H2O:</i>	954 gal	<i>Eq. Sack Weight:</i>	94 lb
Dowell Code	Concl Amount	Total Quantity	
D029	0.25 lbs/sk	37.5	
S001	2 % BWOB	282	
D903 'C'	94 lbs/sk	14100	

LEAD			
500 SK 35.65(POZ/C) + 6% D20 + 2% S1 + 1/4 PPS D29			
<i>Density:</i>	12.3 lb/gal	<i>Thickening Time:</i>	
<i>Yield:</i>	2.10 ft ³ /sk	<i>Viscosity:</i>	cp
<i>H2O Mix:</i>	11.66 gal/sk	<i>Break Time:</i>	
<i>H2O:</i>	5830 gal	<i>Eq. Sack Weight:</i>	88.75 lb
Dowell Code	Concl Amount	Total Quantity	
D029	0.25 lbs/sk	125	
S001	2 % BWOB	887.5	
D020	6 % BWOB	2662.5	
D132	27.65 lbs/sk	13825	
D903 'C'	61.1 lbs/sk	30550	

DRILLING & GEOLOGICAL SUMMARY

ORIGINAL

OPERATOR: Kansas Natural Gas, Inc. KCC #: 5269
 WELL NAME: Foster #1-2 API #: 15-093-21660
 LOCATION: 1320' FSL, 1320' FEL sec21-T21S-R35W COUNTY: Kearny
 ELEVATIONS: GL-3132', KB-3137' TOTAL DEPTH: 2700'
 SPUD DATE: 08/21/00 DRILLING COMPLETED: 08/23/00
 DRILLING CONTRACTOR: Cheyenne Drlg.-Rig#8 KCC #: 5382

SURFACE CASING SIZE: 8 5/8" WEIGHT: 24# GRADE: J-55 DEPTH: 221'
 CEMENT: 50 sx 35/65 Pozmix "C", 125 sx class "C"

CASING EQUIPMENT: "Texas" pattern shoe, 2 centralizers

COMMENTS: circulated 27sx cement to pit. Deviation-1/2°.

PRODUCTION CASING SIZE: 5.5" WEIGHT: 14# GRADE: J-55 DEPTH: 2699'
 1st STAGE CEMENT: 500sx class 35/65 Pozmix "C", 150sx class "C".

2nd STAGE CEMENT:

CASING EQUIPMENT: guide shoe w/integral latch-down baffle, 8 centralizers.

COMMENTS: displaced plug with 250 gallons of 10% acetic acid and water. circulated 180 sx cement to pit. Deviation - 1/2°.

OPEN-HOLE LOGS: none

CASED-HOLE LOGS: G/R-DSN-CCL

SIGNIFICANT DEPTHS: (log depths measured from-KB @ 3137')

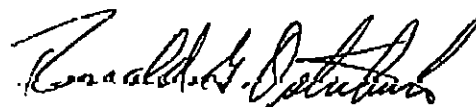
<u>horizon</u>	<u>depth</u>	<u>datum</u>	<u>remarks</u>
T/Cement	GL	+3137'	circulated 180sx
T/Permian	970'	+2167'	
B/Stone Corral	2181'	+ 956'	
T/Hollenberg	2609'	+ 528'	
T/Herington	2645'	+ 492'	perforated 2652'-2658', 4spf
T/Krider	2665'	+ 472'	perforated 2666'-2672', 4spf
T/Winfield	NR		
Rotary total depth	2700'	+ 437'	
Log Total depth	2683'	+ 454'	log depth
Casing total depth	2691'	+ 446'	log depth
Plugged-back depth	2683'	+ 454'	log depth

PERFORATIONS: 2652'-2658', 2666'-2672'; all w/4spf using bullet perforators.

ACID TREATMENTS: 1000 gallons 15% MCA acid at avg 7.4bpm at avg 68#, with maximum pressure of 2500#. ISIP was vacuum.

FRACTURE TREATMENTS: 13,000# 16/30 sand; 150,000scf N₂; treated at avg rate of 8bpm.

REMARKS: ran tubing, rods, and pump on 08/31/00. shut in, waiting on flow test.



prepared by: Ronald G. Osterbuhr