

Well Plugging Report

Kansas Department of Health and Environment
Bureau of Water Protection

(Authorized by K.S.A. 85-171d)

A. Name of Company AMOCO PRODUCTION COMPANY Well No. 9
 Surface Elevation 3131.0
 Company Address P. O. BOX 432 Date well put into service JANUARY 30, 1965
LIBERAL, KS 67905 Permit No. NA

B. Type of well SALT CAVITY STORAGE WELL

Depth of well 1656'

C. Reason for abandonment and plugging EXCESSIVE PRODUCT LOSS

D. Well Location (Co-ordinate footage location) _____

NW 1/4 NW 1/4 SW 1/4 Sec. 5 Twp 29 S

Range 38 (E) (W) GRANT County

E. List the pipe remaining in the hole. _____

557' of 9 5/8" J-55 32# CSG

1661' of 7" J-55 20# CSG

F. Describe the plugging procedure: On July 20, 1987, Gearhart set a CIBP at 1630'. On July 22, 1987, a service unit was rigged up and 2 7/8" tubing was run to 1625'. The casing was swabbed dry. Dowell was rigged up and the casing was filled with 15.6 lb/gal cement in 93' increments as follows: Mix 20 sacks of cement, pump down tubing, pull 3 joints of tubing, pump 20 more sacks of cement, etc... This procedure was performed until 434' was reached. At that time, 10 joints were pulled, cement was run, and the final 4 joints were pulled and cement was pumped to surface. The wellhead was placed on the casing.

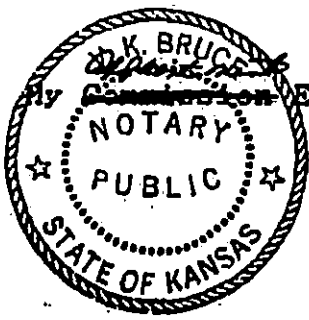
G. Plugging contractor: Dowell
 Plugging supervisor: P. D. Jones - Amoco Production Company
 Date plugging commenced: July 22, 1987
 Date plugging completed: July 22, 1987

I hereby certify that the statements herein are true and correct to the best of my knowledge and belief.

[Signature]
 Applicant Or Duly Authorized Agent

Subscribed and sworn to before me this 4th day of August, 1987

[Signature]
 Notary Public



My Commission Expires 4-28-89



Amoco Production Company
P. O. Box 432
Liberal, KS 67901

July 17, 1987

C. P. Kennedy
Building

U.C. 356-6869
Donall 356-1272

File: LRP-399-400.1

Approved Plugging Procedure for
Salt Cavity Storage Well No. 9
Ulysses Gasoline Plant

.22

Following is the approved procedure for plugging Salt Cavity Storage Well No. 9, at the Ulysses Plant. This procedure has been submitted to and approved by the Kansas Department of Health & Environment.

OK 4 bel
Plotted 7-20-87
det'd
22-87

Call state man 225-0596

with Mike
Geon Hart 624-0267
OR - 7091

- 1. Set a CIBP at the base of the production casing at 1650'.
- 2. Run a ~~2 3/8"~~ ^{2 7/8"} work string and swab the casing dry. *Need 2 7/8 S.A.I.*
- 3. ~~Pull tubing with swab and rerun tubing to 1550'.~~
- 4. Pump a 100' plug (21 sacks) of 15 lb/gallon Class H cement, raise the tubing 100', etc., until the surface is reached.
Flush
- 5. Reinstall the wellhead so that the elevation benchmark is re-established.

C.H. Kelm

C.H. Kelm

DMP/sac

cc: P. D. Jones - Ulysses
R. L. Wilbanks - Building

CEMENTING SERVICE REPORT



TREATMENT NUMBER 775 DATE 7/22/89
STAGE DS DISTRICT KS

DS-496 PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

WELL NAME AND NO. SCSW #9		LOCATION (LEGAL)		RIG NAME Daiko	
FIELD POOL		FORMATION		WELL DATA: BOTTOM TOP	
COUNTY/PARISH Grant		STATE KS		API. NO.	
NAME Amoco		ADDRESS		MUD TYPE GRADE	
ZIP CODE		SPECIAL INSTRUCTIONS Page 2 of 6		MUD DENSITY LBS FOOTAGE SHOE JOINT(S)	
IS CASING/TUBING SECURED? <input type="checkbox"/> YES <input type="checkbox"/> NO		NET PRESSURE PSI		CASING WEIGHT SURFACE AREA (3.14 x R ²)	
PRESSURE LIMIT PSI		BUMP PLUG TO PSI		MUD VISC. Disp. Capacity	
ROTATE RPM		RECIPROCATATE FT		No. of Centralizers	
TIME		PRESSURE		VOLUME PUMPED DDL	
JOB SCHEDULED FOR TIME: 7:00 DATE: 7/22		ARRIVAL TIME: 11:00 DATE: 7/22		LOCATION DATE: 7/22	
LEFT LOCATION TIME: 1:30 DATE: 7/22		SERVICE LOG DETAIL		PRE-JOB SAFETY MEETING	

TIME	TBG OR D.P.	CASING	VOLUME PUMPED DDL		INJECT RATE	FLUID TYPE	FLUID DENSITY	REMARKS
			INCREMENT	CUM				
1357			4.20		2	Curt	15.6	SET 20 SKS AT 1351'
1301			.25	4.20	2	Fluo		START CEMENT
1301				4.45	-			CEMENT MIXED / START DISP
								SHUT DN.
1306			4.20			Curt	15.6	SET 20 SKS AT 1258'
1308			.25	4.00		Fluo		START CEMENT
1308								CEMENT MIXED / START DISP
								SHUT DN.
1314			4.20		2	Curt		SET 20 SKS AT 1165'
1316			.25	4.20	2	Fluo		START CEMENT
1316				4.45	-			CEMENT MIXED / START DISP
								SHUT DN.

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
			BBLs	DENSITY	BBLs	DENSITY
1.						
2.						
3.						
4.						
5.						
6.						

BREAKDOWN FLUID TYPE		VOLUME		DENSITY		PRESSURE MAX. MIN.	
<input type="checkbox"/> HESITATION SQ.		<input type="checkbox"/> RUNNING SQ.		CIRCULATION LOST <input type="checkbox"/> YES <input type="checkbox"/> NO		Cement Circulated To Surf. <input type="checkbox"/> YES <input type="checkbox"/> NO	
BREAKDOWN PSI FINAL		PSI		DISPLACEMENT VOL. Bbls		TYPE OF WELL <input type="checkbox"/> OIL <input type="checkbox"/> GAS	
Washed Thru Parts <input type="checkbox"/> YES <input type="checkbox"/> NO		TO FT		MEASURED DISPLACEMENT <input type="checkbox"/> WIRELINE		<input type="checkbox"/> STORAGE <input type="checkbox"/> INJECTION <input type="checkbox"/> BRINE WATER <input type="checkbox"/> WILDCAT	
PERFORATIONS TO TO		CUSTOMER REPRESENTATIVE		SUPERVISOR			
		Paul Jones		GUY BRENOIK			

CEMENTING SERVICE REPORT



TREATMENT NUMBER: 05-92-775
 DATE: 7/22/87
 DISTRICT: Ks.
 COUNTY: GUNT

DS-496 PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

WELL NAME AND NO. **W # 9** LOCATION (LEGAL) _____ RIG NAME: **DW 30**

FIELD POOL _____ FORMATION _____ WELL DATA: BIT SIZE _____ CSQ/Liner Size **7'** BOTTOM _____ TOP _____

COUNTY/PARISH **GUNT** STATE **Ks** API. NO. _____ TOTAL _____

NAME **Amico** MUD TYPE _____ GRADE _____

AND _____ MUD DENSITY _____ LEAD FOOTAGE _____ SHOE JOINT(S) _____

ADDRESS _____ MUD VISC. _____ Disp. Capacity _____

ZIP CODE _____ NOTE: Include Footage From Ground Level To Head in Disp. Capacity

SPECIAL INSTRUCTIONS: **PAGE 3 OF 6**

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE _____ PSI CASING WEIGHT - SURFACE AREA (0.14 x R²) _____

PRESSURE LIMIT _____ PSI BUMP PLUG TO _____ PSI

ROTATE _____ RPM RECIPROCATATE _____ FT No. of Centralizers _____

Head & Plugs: TBG D.P. SQUEEZE JOB

Double SIZE **2 7/8** WEIGHT _____ TYPE _____

Single GRADE _____ TAIL PIPE: SIZE _____ DEPTH _____

Swage THREAD _____ TUBING VOLUME _____ Bbls

Knockoff NEW USED _____ CASING VOL. BELOW TOOL _____ Bbls

TOP OR BOT W DEPTH _____ TOTAL _____ Bbls

ANNUAL VOLUME _____ Bbls

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE	TIME	DATE	
0001:02400											
			4.20			7/22		7/22		7/22	
1321			.25	4.20	2						
1323				4.45							
1323											
1329			4.20		2		15.6				
1331			.25	4.20	2						
1331				4.45							
1336			4.20								
1338			.25	4.20							
1338				4.45							

REMARKS: _____

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.								
2.								
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE: HESITATION SQ. RUNNING SQ. CIRCULATION LOST: YES NO Cement Circulated To Surf. YES NO Bbls.

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. Bbls TYPE OF WELL: OIL GAS STORAGE INJECTION BRINE WATER WILDCAT

Washed Thru Perfs YES NO TO FT MEASURED DISPLACEMENT WIRELINE

PERFORMATIONS TO TO CUSTOMER REPRESENTATIVE: **Tom Jones** SUPERVISOR: **DS [Signature]**

CEMENTING SERVICE REPORT



DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 03-12-9795 DATE 7/22/87
 STAGE DS DISTRICT 0143365

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO. **SGSW 49** LOCATION (LEGAL) **Barbo** RIG NAME: **Barbo**

FIELD POOL **Barbo** FORMATION **Barbo**

WELL DATA: BOTTOM TOP

BIT SIZE CSG/Liner Size

TOTAL DEPTH WEIGHT

ROT CABLE FOOTAGE

MUD TYPE GRADE

BHST BHCT THREAD

MUD DENSITY LEGS FOOTAGE SHOE JOINT(S)

MUD VISC. Disp. Capacity

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

AND

ADDRESS

ZIP CODE

SPECIAL INSTRUCTIONS

NAME **Amoco**

STATE **KS** API. NO.

CO. CITY/PARISH **Lawrence**

SHOE LOSS TYPE DEPTH

SHOE LOSS TYPE DEPTH

Head & Plugs TBG D.P. SQUEEZE JOB

Double Single Swage Knockoff

SIZE WEIGHT GRADE THREAD

TAIL PIPE: SIZE DEPTH

TUBING VOLUME Bbls

CASING VOL. BELOW TOOL Bbls

TOTAL Bbls

ANNUAL VOLUME Bbls

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE PSI CASING WEIGHT SURFACE AREA

PRESSURE LIMIT PSI BUMP PLUG TO PSI

ROTATE RPM RECIPROCATE FT No. of Centralizers

ARRIVE ON LOCATION TIME: 1:00 DATE: 7/22

LEFT LOCATION TIME: 1:50 DATE: 7/22

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE
0001 to 2400											
1344			4.20		2	Clay	15.6				
1346			.25	4.20	2	Fiber					
1346				4.45							
1352			4.20		2	Clay	15.6				
1354			.25	4.20	2	Fiber					
1354				4.45							
1359			4.20								
1401			.25	4.20							
1401				4.45							

REMARKS

PRE-JOB SAFETY MEETING

Set 20 Sks at 793

Start Cement

Cement Mixed / Start Disp

Shut du.

Set 20 Sks at 700'

Start Cement

Cement Mixed / Start Disp

Shut du.

Set 20 Sks at 607'

Start Cement

Cement Mixed / Start Disp

Shut du.

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.								
2.								
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE

HESITATION SQ. RUNNING SQ.

CIRCULATION LOST YES NO

Cement Circulated To Surf. YES NO Bbls

BREAKDOWN PSI FINAL PSI

DISPLACEMENT VOL. Bbls

Washed Thru Perls YES NO TO FT

MEASURED DISPLACEMENT WIRELINE

TYPE OF WELL OIL GAS STORAGE INJECTION BRINE WATER WILDCAT

INCORPORATIONS TO TO

CUSTOMER REPRESENTATIVE **Tai Jones**

DS SUPERVISOR **Greg Brewitt**

CEMENTING SERVICE REPORT



DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER: 02-12-9795
 DATE: 7/22/87
 STAGE: DS DISTRICT: Ulysses KS

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO.: **5350-89**
 LOCATION (LEGAL):
 FIELD-POOL:
 COUNTY/PARISH: **Grant**
 STATE: **KS**
 API. NO.:
 NAME: **Amoco**
 AND:
 ADDRESS:
 ZIP CODE:

RIG NAME: **BaBo**
 WELL DATA:
 BIT SIZE: **7"** (CSG/Liner Size)
 TOTAL DEPTH: **203'** (WEIGHT)
 ROY CABLE FOOTAGE
 MUD TYPE: **GRADE**
 BHST BHCT THREAD
 MUD DENSITY: **LESS FOOTAGE SHOE JOINT(S)**
 MUD VISC.: **Disp. Capacity**

SPECIAL INSTRUCTIONS:
Page 5 of 6

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

SHOE POINT	TYPE		TOOL JOBS	TYPE	
	DEPTH			DEPTH	
	TYPE			TYPE	
	DEPTH			DEPTH	

Head & Plugs: TBG D.P. SQUEEZE JOB
 Double Single Swage Knockoff
 SIZE: **2 7/8** WEIGHT: **27.8** GRADE: **GRADE** THREAD: **THREAD**
 TAIL PIPE: SIZE: DEPTH: TUBING VOLUME: Bbls
 TOP NEW USED CASING VOL. BELOW TOOL: Bbls
 BOT DEPTH: TOTAL: Bbls
 ANNUAL VOLUME: Bbls

IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE: PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)
 PRESSURE LIMIT: PSI BUMP PLUG TO: PSI
 ROTATE: RPM RECIPROCATATE: FT No. of Centralizers

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE
1415			420		2	GR	15.6				
1417			.25 420		2	GR	15.6				
1417			445								
1421			420		2	GR	15.6				
1423			.25 420		2	GR	15.6				
1426			420								
1428			.25 420								
1428			445								

REMARKS:
 PREJOB SAFETY MEETING
 SET 20 S/G AT 514'
 SET 20 S/G AT 421'
 SET 20 S/G AT 328'

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
			BBLs	DENSITY	BBLs	DENSITY
1.						
2.						
3.						
4.						
5.						
6.						

BREAKDOWN FLUID TYPE: HESITATION SQ. RUNNING SQ. CIRCULATION LOST: YES NO
 Cement Circulated To Surf. YES NO Bbls.
 BREAKDOWN PSI FINAL: PSI DISPLACEMENT VOL. Bbls
 Washed Thru Parts YES NO TO: FT MEASURED DISPLACEMENT WIRELINE
 TYPE OF WELL: OIL GAS STORAGE INJECTION BRINE WATER WILDCAT
 PERFORATIONS: TO TO CUSTOMER REPRESENTATIVE: **Paul J...** SUPERVISOR: **...**

CEMENTING SERVICE REPORT



DOWELL SCHLUMBERGER INCORPORATED

DS-496 PRINTED IN U.S.A.

TREATMENT NUMBER 103-12-9795 DATE 7/22/87
 PAGE DS DISTRICT 0143555, KS

WELL NAME AND NO. **SCSW 49**
 LOCATION (LEGAL)
 FIELD-POOL
 FORMATION
 COUNTY/PARISH **Comanche** STATE **KS** API. NO.
 NAME **Quinn**
 AND
 ADDRESS
 ZIP CODE

RIG NAME:
 WELL DATA: BOTTOM TOP
 BIT SIZE CSG/Liner Size **7"**
 TOTAL DEPTH WEIGHT **70⁴¹**
 ROT CABLE FOOTAGE
 MUD TYPE GRADE
 BHST BHCT THREAD
 MUD DENSITY LESS FOOTAGE SHOE JOINT(S) TOTAL
 MUD VISC. Disp. Capacity

SPECIAL INSTRUCTIONS
Page 6026
 IS CASING/TUBING SECURED? YES NO
 IFT PRESSURE PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)
 PRESSURE LIMIT PSI BUMP PLUG TO PSI
 ROTATE RPM RECIPROCATATE FT No. of Centralizers

NOTE: Include Footage From Ground Level To Head In Disp. Capacity
 TYPE DEPTH TYPE DEPTH
 TYPE DEPTH TYPE DEPTH
 Head & Plugs TBG D.P. SQUEEZE JOB
 Double Single Swage Knockoff
 SIZE WEIGHT GRADE THREAD
 TUBING VOLUME Bbls
 CASING VOL. BELOW TOOL Bbls
 TOTAL Bbls
 ANNUAL VOLUME Bbls

JOB SCHEDULED FOR TIME: **12:00** DATE: **7/27** ARRIVE ON LOCATION TIME: **11:00** DATE: **7/27** LEFT LOCATION TIME: **15:30** DATE: **7/27**

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
0001 to 2400								PRE-JOB SAFETY MEETING
1431			470		2	Clay	15.6	Set 20' stop at 235'
1433			25	470	2	Fill		Set 20' stop at 142'
				445				Set 20' stop at 142'
1438			470			Clay	15.6	Set 20' stop at 142'
1440			25	470		Fill		Set 20' stop at 142'
1440				445				Set 20' stop at 142'
1445					2	Clay		Set 20' stop at 142'
1448					2	Fill		Set 20' stop at 142'
1448								Set 20' stop at 142'

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.								
2.								
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX. MIN.
 HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO Bbls.
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. Bbls TYPE OF WELL OIL GAS STORAGE BRINE WATER
 Washed Thru Perfs YES NO TO FT MEASURED DISPLACEMENT WIRELINE WELL INJECTION WILDCAT
 OPERATIONS CUSTOMER REPRESENTATIVE DS SUPERVISOR
 TO TO

BARBO WELL SERVICE, INC.

P. O. BOX 159

ULYSSES, KANSAS 67880

RIG No. 2 Date 7-22 1987
 COMPANY amos prod co Job Order PA
 Lease SC 56 Well No. 9
 Co. Rep. Paul Jones County _____ State K.

*Move in Rig up, from tubing
 swap well, cement well, pulled
 tubing, made up well head
 completed Rig down moved
 off.*

				AMOUNT
Operator	<u>R Banks</u>	<u>9</u>	Hrs.	
Relief Operator	<u>Victor Banks</u>	<u>9</u>	Hrs.	
Helper	<u>Bell Hartence</u>	<u>9</u>	Hrs.	
Helper			Hrs.	
Road Time - Unit & Operator		Hours	Min.	
Road Time - Extra Labor		Hours	Min.	
Unit & Operator		<u>9</u> Hours	Min.	
Extra Labor		each per Hour <u>18</u>	Hrs.	
Power Tongs		per Day <u>one</u>	Days	
Swab Rubbers	SIZE <u>1 1/4</u>	MAKE <u>TUP</u>	NO USED <u>4</u>	each
Oil Saver Rubbers	<u>5/8</u>	<u>H-1</u>	<u>2</u>	each
				each
Light Plant			Days	
Swabbing After Acid		per Day	Hrs.	
Tong Dies		each	Used	
Sub-Total				
Tax				
TOTAL				

Signed: _____ COMPANY REPRESENTATIVE
Anderson Graphics - Ulysses



Amoco Production Company

Post Office Box 432
Liberal, Kansas 67901
316-624-6241

C. H. Kelm
District Manager

August 3, 1987

Kansas Department of Health & Environment
Environmental Geology Unit
Industrial Programs Section
Forbes Field
Topeka, KS 66620

Attn: Mike Cochran

File: LRP-427-400.1

Dear Mr. Cochran:

Plugging Report
Salt Cavity Storage Well No. 9
Ulysses Gas Plant.

Attached please find the "Well Plugging Report" for the subject well. The procedure was performed July 22, 1987, as per the procedure previously approved by your office. A bridge plug was set at 1630' and the wellbore was filled with cement. Once plugging operations were completed, the wellhead was returned to the casing for a permanent benchmark. If you have any questions regarding this procedure please contact Dave Penner at (316)624-6241, ext. 334.

Very truly yours,

C. H. Kelm

DMP/sac

Attachment

cc: P. D. Jones - Ulysses
R. L. Wilbanks - Building