

ORIGINAL

CONFIDENTIAL

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

API No. 15- 175-21652-0100

County SEWARD

50'S- SW - SW - SW Sec. 2 Twp. 33 Rge. 34 X W

SHL 280 Feet from X(S) (circle one) Line of Section

SHL 330 Feet from X(S) (circle one) Line of Section

BHL: 2199 FSL & 700 FWL.
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or (SW) (circle one)

Lease Name MCHARGUE "A" Well # 4

Field Name SHUCK

Producing Formation NONE

Elevation: Ground 2875.2 KB

Total Depth 7969 TVD, 6181 MD PBDT 0

Amount of Surface Pipe Set and Cemented at 1640 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set Feet

If Alternate II completion, cement circulated from

feet depth to w/ SX cmt.

Drilling Fluid Management Plan P-4-A, 10-1-98 UR.
(Data must be collected from the Reserve Pit)

Chloride content 1100 ppm Fluid volume 700 bbls

Dewatering method used DRY, BACKFILL & RESTORE LOCATION.

Location of fluid disposal if hauled offsite:

Operator Name 11-24-97

Lease Name KCC License No.

County Sec 8 Twp. S Rng. E/W.

Spud Date 8-3-97 Date Reached TD 8-26-97 Completion Date P&A 11-18-97

County CONFIDENTIAL Docket No.

Operator: License # 4549

Name: ANADARKO PETROLEUM CORPORATION

Address P. O. BOX 351

City/State/Zip LIBERAL, KANSAS 67905-0351

Purchaser: NONE

Operator Contact Person: DAVID W. KAPPLF

Phone (316) 624-6253

Contractor: Name: CHEYENNE DRILLING

License: 5382

Wellsite Geologist:

Designate Type of Completion

X New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

X Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator:

Well Name:

Comp. Date Old Total Depth

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBDT

Commingled Docket No.

Dual Completion Docket No.

Other (SWD or Inj?) Docket No.

8-3-97 8-26-97 P&A 11-18-97

Spud Date Date Reached TD Completion Date

RELEASED

APR 09 1999

FROM CONFIDENTIAL

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INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 L. Marc Harvey
Title DRILLING TECHNICAL ASSISTANT Date 11-20-97

Subscribed and sworn to before me this 20th day of November 1997.

Notary Public Freda L. Henry

Date Commission Expires

FREDA L HENRY
Notary Public - State of Kansas
My Appt. Expires 5-15-99

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

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name MCHARGUE "A" Well # 4

Sec. 2 Twp. 33 Rge. 34 East County SEWARD
 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving 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 Yes No
 (Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy.)

List All E.Logs Run: DIL, CNL-LDT, ML.

SURVEY REPORT ATTACHED.

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
CHASE	2551	
COUNCIL GROVE	2864	
HEEBNER	4168	
TORONTO	4203	
LANSING	4322	
MARMATON	4980	
CHEROKEE	5190	
MORROW	NOT LOGGED	
STE. GENEVIEVE	NOT LOGGED	
ST. LOUIS "A"	6190 TVD	

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	12-1/4"	9-5/8"	32.0	1640	P+ MIDCON 2/ P+	255/100	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
PRODUCTION	8-3/4"	7"	23.0	6336	50/50 POZ/ CLASS H PREM	70/200	.75% HALAD-322, .1% FWCA/ .8% HALAD-322 .1% HR-5.

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 Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth	
	OPEN HOLE	6336-7969		ACID: 8200 GAL 15% FeHCL

TUBING RECORD	Size	Set At	Packer At	Liner Run
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. _____ Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	N-A				

Disposition of Gas: _____ METHOD OF COMPLETION _____ Production Interval _____

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
 (If vented, submit ACO-18.) Other (Specify) _____

NONE-D&A
 P&A 11-18-97

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DRILLERS LOG

ANADARKO PETROLEUM CORPORATION
McHARGUE A-4
SECTION 2-T33S-R34W
SEWARD COUNTY, KANSAS

15-175-21652-0100

COMMENCED: 08-03-97
COMPLETED: 08-27-97

9
SURFACE CASING: 1640' OF 8 5/8" CMTD
W/255 SKS PREMIUM PLUS MIDCON + 5%
CC = 1/4 #/SK FLOCELE. TAILED IN
W/100 SKS PREMIUM PLUS + 2% CC
+ 1/4 #/SK FLOCELE.

RELEASED

FORMATION

DEPTH

~~APR 09 1999~~

SURFACE HOLE
SHALE & LIMESTONE
ST. LOUIS

FROM CONFIDENTIAL

0 - 1650
1650 - 6725
6725 - 7968 RTD

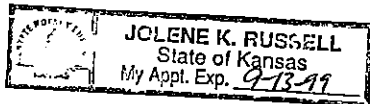
I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

WRAY VALENTINE

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 28TH DAY OF AUGUST, 1997.



JOLENE K. RUSSELL

NOTARY PUBLIC

KLC
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M & M Directional Consultants

APR 09 1999

Report of Survey

15-175-21652-0100

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Minimum Curvature Method

MEASURED DEPTH	INCL.	DIRECTION	VERTICAL DEPTH	VERTICAL SECTION	RECTANGULAR COORDINATES		DLS Deg/100'
5788.00	.64	275.45	5787.70	7.48	7.00 N	3.40 E	
5812.00	3.60	23.60	5811.68	8.21	7.70 N	3.57 E	16.03
5842.00	10.70	20.60	5841.43	11.86	11.18 N	4.93 E	23.69
5873.00	16.40	21.10	5871.56	18.99	17.96 N	7.52 E	18.39
5905.00	21.30	18.80	5901.83	29.17	27.68 N	11.02 E	15.48
5936.00	23.00	20.90	5930.54	40.69	38.67 N	14.99 E	6.05
5997.00	28.40	20.10	5985.49	66.69	63.45 N	24.24 E	8.87
6028.00	28.30	19.20	6012.77	81.20	77.31 N	29.19 E	1.42
6060.00	31.50	14.70	6040.51	97.03	92.56 N	33.81 E	12.21
6093.01	36.50	12.40	6067.87	115.44	110.51 N	38.10 E	15.64
6123.00	42.20	10.60	6091.05	134.44	129.13 N	41.88 E	19.38
6153.00	48.60	8.70	6112.11	155.79	150.18 N	45.44 E	21.80
6168.00	51.88	8.55	6121.70	167.32	161.58 N	47.16 E	21.89
6185.00	55.60	8.40	6131.75	181.02	175.14 N	49.18 E	21.89
6214.00	62.30	9.70	6146.70	205.84	199.66 N	53.10 E	23.42
6245.00	68.90	9.10	6159.50	234.06	227.50 N	57.70 E	21.36
6298.00	79.90	13.30	6173.74	285.00	277.47 N	67.65 E	22.11
6331.00	87.32	11.01	6177.41	317.75	309.51 N	74.54 E	23.53
6334.00	88.00	10.80	6177.53	320.75	312.45 N	75.11 E	23.52
6377.00	87.90	14.40	6179.07	363.67	354.38 N	84.48 E	8.37
6409.00	87.00	13.60	6180.49	395.56	385.40 N	92.22 E	3.76
6472.00	86.50	13.20	6184.06	458.35	446.59 N	106.79 E	1.02
6504.00	86.60	13.10	6185.99	490.24	477.69 N	114.06 E	.44
6550.00	86.30	13.00	6188.84	536.09	522.42 N	124.43 E	.69
6598.00	87.70	12.00	6191.35	583.97	569.21 N	134.80 E	3.58
TARGET 6186 - 6196 TVD BT DRILLING RATE							
6628.00	88.80	11.90	6192.27	613.94	598.55 N	141.01 E	3.68
6657.00	89.20	11.60	6192.77	642.92	626.94 N	146.92 E	1.72
6691.00	91.35	12.42	6192.61	676.90	660.19 N	153.99 E	6.77
6754.00	91.40	11.60	6191.10	739.84	721.79 N	167.10 E	1.30
6842.00	91.70	11.70	6188.72	827.77	807.95 N	184.86 E	.36
6994.00	91.30	11.60	6184.74	979.66	956.76 N	215.54 E	.27
7080.00	91.50	10.50	6182.64	1065.62	1041.14 N	232.02 E	1.30
7276.00	89.50	10.80	6180.92	1261.59	1233.75 N	268.24 E	1.03
7394.00	87.80	10.40	6183.70	1379.54	1349.70 N	289.94 E	1.48
7488.00	88.80	10.10	6186.49	1473.50	1442.16 N	306.66 E	1.11

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MEASURED DEPTH	INCL.	DIRECTION	VERTICAL DEPTH	VERTICAL SECTION	RECTANGULAR COORDINATES		DLS Deg/100'
7582.00	90.30	10.10	6187.23	1567.49	1534.70 N	323.14 E	1.60
7677.00	92.00	6.90	6185.32	1662.43	1628.62 N	337.18 E	3.81
7739.00	93.10	6.90	6182.57	1724.27	1690.11 N	344.62 E	1.77
7925.00	88.60	6.00	6179.81	1909.85	1874.86 N	365.51 E	2.47
7969.00	88.14	6.00	6181.06	1953.72	1918.60 N	370.10 E	1.03

Final location: 1953.97 feet at 10.92 degrees

Plane of Vertical Section: 10.00 degrees

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FROM CONFIDENTIAL

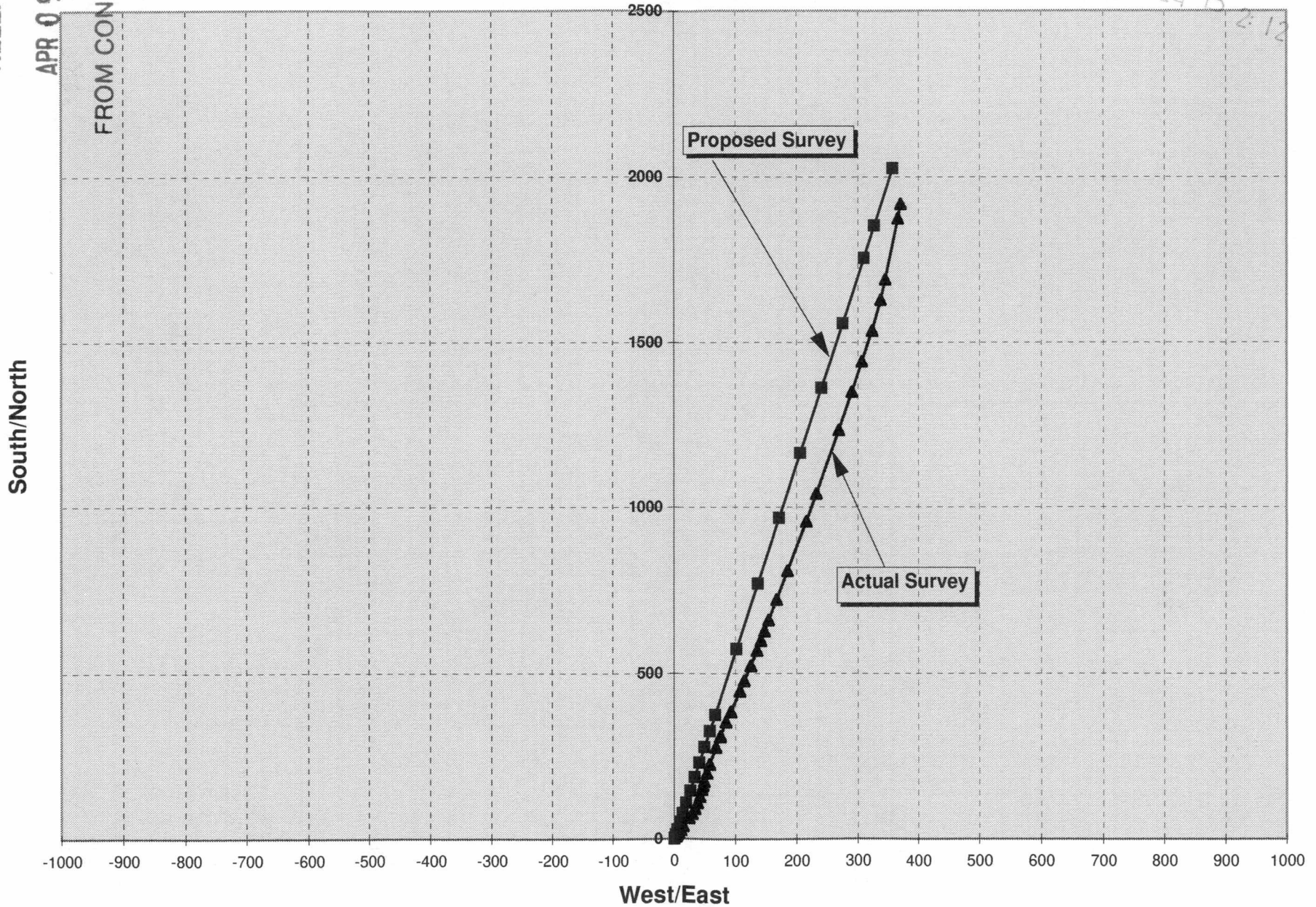
RELEASE

APR 09 1999

FROM CONFIDENTIAL

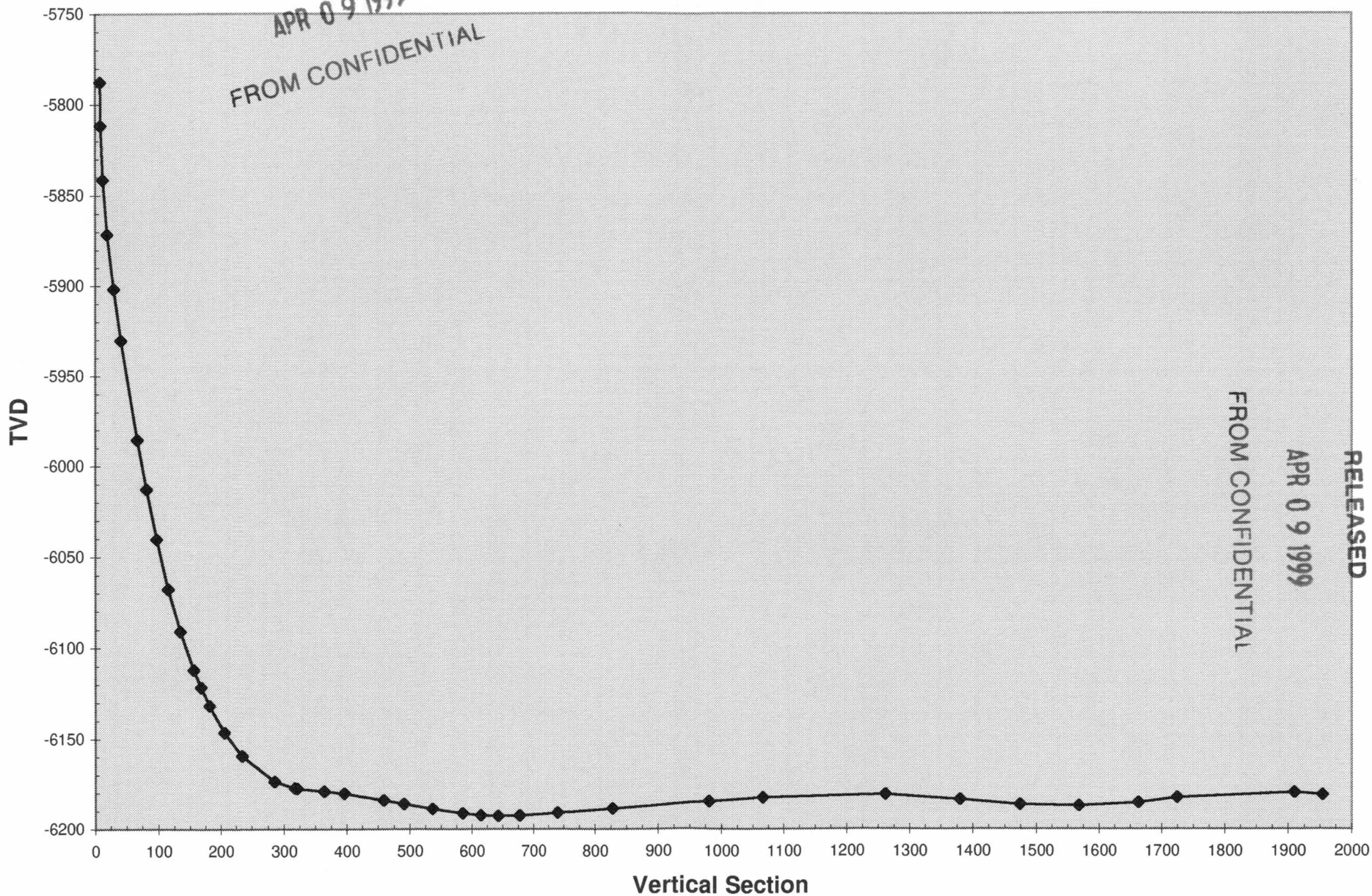
McHARGUE A-4 Survey Data

RECEIVED
KANSAS CORP COMM
1997 NOV 24 12:12



McHargue A-4 Survey Data

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RELEASED
APR 09 1999
FROM CONFIDENTIAL



JOB SUMMARY 4239-1

TICKET # 234613	TICKET DATE 8-4-97
BDA / STATE KS	COUNTY SEWARD
PSL DEPARTMENT CEMENT	CUSTOMER REP / PHONE JIM BARLOW
API / UWI #	RELEASED
JOB PURPOSE CODE C10 - 9 5/8 SURFACE	APR 09 1999

REGION North America	NWA/COUNTRY Mid CONTINENT
MBU ID / EMP # LT104 62573	EMPLOYEE NAME JOHN WOODROW
LOCATION LIBERAL, KS	COMPANY ANADARKO
TICKET AMOUNT	WELL TYPE 02
WELL LOCATION N. LIBERAL	DEPARTMENT CEMENT
LEASE / WELL # McHARGUE A-4	SEC / TWP / RNG 2-33S-34W

HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS
S. GRANT			
B. MCINTYRE			
C. ASHLEY			

ORIGINAL

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420044 P/U	40						
53554/7490 TS-TC4	40						
52274/7649 BULK	37						
51984/77031 BULK	34						

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Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar ZOSERT 9 5/8	1	H
Float Shoe		
Guide Shoe SLIP JT	1	G
Centralizers S-4 9 5/8	4	
Bottom Plug		W
Top Plug S-W 9 5/8	1	
Head P/C 9 5/8	1	C
Packer		
Other BASKET	1	O

MATERIALS

Treat Fluid _____ Density _____	Lb/Gal
Disp. Fluid _____ Density _____	Lb/Gal
Prop. Type _____ Size _____	Lb.
Prop. Type _____ Size _____	Lb.
Acid Type _____ Gal. _____	%
Acid Type _____ Gal. _____	%
Surfactant _____ Gal. _____	In
NE Agent _____ Gal. _____	In
Fluid Loss _____ Gal/Lb _____	In
Gelling Agent _____ Gal/Lb _____	In
Fric. Red. _____ Gal/Lb _____	In
Breaker _____ Gal/Lb _____	In
Blocking Agent _____ Gal/Lb _____	
Perfpac Balls _____ Qty. _____	
Other _____	
Other _____	
Other _____	
Other _____	

DATE	TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
8-4-97	0330		8-4-97	8-4-97	8-4-97
			0645		

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing		32'	9 5/8	KB		
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED	Avail.	Used
TREATED	AVERAGE RATES IN BPM	
	Disp.	Overall
FEET	CEMENT LEFT IN PIPE	
	Reason	SHOE JOINT

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	255	Pt midcon	B	3 BCC 1/4" FLOCKER	3.22	11.1
	100	PT	B	2 BCC 1/4" FLOCKER	1.32	14.8

Circulating _____	Displacement _____	Preflush: _____ Gal - BBI _____	Type _____
Breakdown _____	Maximum _____	Load & Bkdn: _____ Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment _____ Gal - BBI _____	Disp: BBI - Gal _____
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr _____ Gal - BBI _____	
		Total Volume _____ Gal - BBI _____	129 LC 23.5 TC

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE
[Signature]



JOB LOG 4239-5

TICKET #	234613	TICKET DATE	8-4-77
BDA / STATE	KS	COUNTY	SEWARD
PSL DEPARTMENT	CEMENT		
CUSTOMER REP / PHONE	JIM BARLOW		
API / UWI #	APR 09 1999		
JOB PURPOSE CODE	OIL - 9 3/4 SURFACE		

REGION	North America	NWA/COUNTRY	MEX GOVERNMENT
MBU ID / EMP #	LT104 62573	EMPLOYEE NAME	JOHN WOODROW
LOCATION	UB32A KS	COMPANY	ANALARKO
TICKET AMOUNT		WELL TYPE	CEMENT
WELL LOCATION		DEPARTMENT	CEMENT
LEASE / WELL #		SEC / TWP / RNG	2-33S-34W

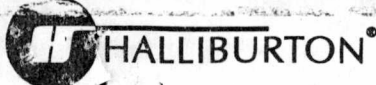
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HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
S GRANT			
B MCINTYRE			
C ASHLEY			

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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0730							JOB READY
	0730							CALLED OUT FOR JOB
	0645							PUMP TRUCK + BULK CMT ON LOCATION
								RIC HAS 1640 OF 12 1/4 HOLE MADE. HAVE DRILL PIPE TRIPPED OUT OF HOLE / WAIT ON CASING
	0730							TRIP BACK IN HOLE WITH D.P.
	0830							CASING ON LOCATION
	0830							TRIP OUT OF HOLE WITH D.P.
	1030							START RUNNING 9 3/4 CSG. + FLOAT EQUIP
								CASING ON BOTTOM 1650
								HOOK UP 9 3/4 PIC + CIRCULATING TROW
								START CIRCULATING WITH RIC PUMP
								HOLD SAFETY MEETING
								THROUGH CIRCULATING / HOOK UP TO PUMP TRUCK
								JOB PROCEDURE
	1200	6.5	146			0/200		START MIXING 255 SKS LEAD CMT AT 11.1 ⁴⁰ GAL
	1220	6.0	235			100/150		START MIXING 100 SKS TAIL CMT AT 14.9 ⁴⁰ GAL
	1225		169			0		THROUGH MIXING CMT / SHUT DOWN
	1226							RELEASE PLUG / START DISPLACING
								HAVE 75 BAGS OUT / HAVE CMT RETURNS TO SURFACE
	1245		128			200/150		PLUG DOWN / RELEASE FLOAT
								FLOAT HELD
<p style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;">CIRCULATED (50 BBLs 86 SKS)</p>								
<p>Thank you! FOR CALLING HALLIBURTON</p>								
<p>WOODY + SAM</p>								
<p>NOV 20</p> <p>CONFIDENTIAL</p>								



JOB SUMMARY 4239-1

TICKET # 234905	TICKET DATE 8-18-97
BDA / STATE KS	COUNTY Seward
PSL DEPARTMENT Cement	RELEASED
CUSTOMER REP / PHONE JR STUCK	APR 09 1999
API / UWI #	FROM CONFIDENTIAL
JOB PURPOSE CODE 015	

REGION North America	NWA/COUNTRY Mid Coat
MBU ID / EMP # W1011/85257	EMPLOYEE NAME John Kluft
LOCATION Leat	COMPANY Anadarko Petro Corp
TICKET AMOUNT	WELL TYPE P1
WELL LOCATION Alchiberal KS	DEPARTMENT Cement
LEASE / WELL # McHague A U	SEC / TWP / RNG 2-335-344

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
frosty 69725			
R. Elwood			

ORIGINAL

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
52938-7131							
50404-6010							

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Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE	8-18-97	8-18-97	8-18-97	8-18-97
TIME	08:30	12:00	22:17	23:06

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar	1	
Float Shoe	1	
Guide Shoe	1	
Centralizers	19	
Bottom Plug	13	
Top Plug	1	
Head		
Packer		
Other		

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	23-26	7	KS	6336-28	2500
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
8-18-97	16hr	8-18-97	48min	7.2 Intermediate
				KUC
				NOV 20
				CONFIDENTIAL
TOTAL		TOTAL		

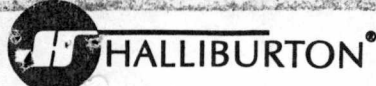
HYDRAULIC HORSEPOWER
 Avail. _____ Used _____
AVERAGE RATES IN BPM
 Disp. _____ Overall _____
CEMENT LEFT IN PIPE
 Reason **Shoe Joint**

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	20	4000	B	7500 Haldex 322, 1/4 # floccate	1.26	14.15
2	206	4000	3	170 Haldex, 80 Haldex 322, 190 HR-5, 1/4 # floccate	1.06	16.4

Circulating _____	Displacement _____	Preflush: Gal - BBI _____	Type 400 Super-H2O
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI _____	Pad: BBI - Gal _____
Average _____	Frac Gradient _____	Treatment Gal - BBI _____	Disp: BBI - Gal 247.20
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - BBI 6715.20	37.45
		Total Volume Gal - BBI 221.35	

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____
 CUSTOMER'S REPRESENTATIVE SIGNATURE _____
THE INFORMATION STATED HEREIN IS CORRECT



JOB LOG 4239-5

TICKET # **234905** TICKET DATE **8-18-97**

REGION North America	NWA/COUNTRY Mid Cont	BDA / STATE KS	COUNTY Seward
MBU ID / EMP # L10101 / 85257	EMPLOYEE NAME John Klotz	PSL DEPARTMENT Cement	
LOCATION Land	COMPANY Anadarko Petro.	CUSTOMER REP / PHONE DR. Stuck	RELEASED
TICKET AMOUNT	WELL TYPE off	API / UWI #	
WELL LOCATION W. of Liberal KS	DEPARTMENT Cement	JOB PURPOSE CODE 015	APR 09 1999
LEASE / WELL # McHargue A-11	SEC / TWP / RNG 2 - 33S - 34W		

FROM CONFIDENTIAL

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
		ORIGINAL	

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	09:00							Call Out
	12:00							On Location
	16:15							Rig-up & Safety Meeting
	15:30							Run Float Equipment
	18:11							Stop & Circulate w/Rig 745T @ 3555' 15min
	19:00							Start Running Casing
	20:26							Stop & Circulate w/Rig @ 5802' 15min
	20:41							Run Casing
	21:15							Hook up Halliburton heads upon & Circulated w/Rig
	22:17	5	8-10-8			250		866l H ₂ O - 1066l Superflush - 866l H ₂ O (PUMP)
	22:21	8.5	15.70			610		Mix Pump CMT (Lead) @ 14.1 #/gal
	22:24	8.5	3275			590		" (Tail @ 16.4 #/gal
	22:33							Shut down & wash pump & lines
	22:34							Drop Plug
	22:36	9.5	247.02			930		Start Displacement
	23:05							LANE PLUG
	23:06							Release back / Plug held
	23:07							End Job

CONFIDENTIAL

KCC
NOV 20
CONFIDENTIAL

Thank You Robert - my hero
John - Frosty