ORIGINAL

FORM MUST BE TYPED

SIDE ONE

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

Operator: License # 4549

Name: ANADARKO PETROLEUM CORPORATION

Address P. O. BOX 351

City/State/Zip LIBERAL, KANSAS 67905-0351

Purchaser: ANADARKO TRADING COMPANY

Operator Contact Person: J. L. ASHTON

Phone (316) 624-6253

Contractor: Name: CHEYENNE DRILLING

License: 5382

Wellsite Geologist: N/A

Designate Type of Completion
X New Well ____ Re-Entry ____ Workover

____ Oil ____ SWD ____ SIOW ____ Temp. Abd.
X Gas ____ ENHR ____ SIGW
____ 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 ____ PBTD
____ Commingled Docket No. ____
____ Dual Completion Docket No. ____
____ Other (SWD or Inj?) Docket No. ____

12-19-96 Spud Date | 12-22-96 Date Reached TD | 1-24-97 Completion Date

API NO. 15- 189-22111-00-00

County STEVENS

NW - NW - SE - SW Sec. 13 Twp. 33 Rge. 38 E X W

1250 Feet from X/S (circle one) Line of Section

1390 Feet from X/W (circle one) Line of Section

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

Lease Name SHELL "A" Well # 2H

Field Name HUGOTON

Producing Formation CHASE

Elevation: Ground 3137 KB --

Total Depth 2900 PBTD 2883

Amount of Surface Pipe Set and Cemented at 630 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 ALT 1 JH 1-14-98
(Data must be collected from the Reserve Pit)

Chloride content NA ppm Fluid volume 400 bbls

Dewatering method used NATURAL EVAPORATION

Location of fluid disposal if hauled offsite: 3-1-97

Operator Name

Lease Name License No.

____ Quarter Sec. ____ Twp. ____ S Rng. ____ E/W

County ____ Docket No.

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KANSAS CORPORATION COMMISSION
1997 MAR - 3

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 David Kapple
DAVID W. KAPPLE
Title DIVISION DRILLING ENGINEER Date 3/5/97

Subscribed and sworn to before me this 5th day of March 19 97.

Notary Public Lynnae Harvey

Date Commission Expires 6-12-99

L. MARC HARVEY
Notary Public - State of Kansas
My Appt. Expires 6-12-99

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)

Form ACO-1 (7-91)

SIDE TWO

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name SHELL "A" Well # 2H

Sec. 13 Twp. 33 Rge. 38 ☐ East ☒ West County STEVENS

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 (Attach Additional Sheets.) ☐ Yes ☒ No

Samples Sent to Geological Survey ☐ Yes ☒ No

Cores Taken ☐ Yes ☒ No

Electric Log Run (Submit Copy.) ☒ Yes ☐ No

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

☒ Log Formation (Top), Depth and Datums ☐ Sample

Name	Top	Datum
GLORIETTA	1180-1360	
B/CIMARRON ANHY.	1714	
HERRINGTON	2515	
KRIDER	2537	
WINFIELD	2610	
TOWANDA	2666	

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	8-5/8	23.0	630	CLASS C	120/100	3% D79,.2% D46, 2%CC, 1/4#SK FLC.
PRODUCTION	7-7/8	5-1/2	15.5	2897	CLASS C	170/120	3% D79,.2% D46, 2%CC, 1/4#SK FLC/ SAME

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top	Depth Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate					
___ Protect Casing					
___ Plug Back TD					
___ 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
2	2729-2756, 2710-2714, 2682-2702, 2626-2638,	ACID: 2500 GAL 7-1/2% FeHCl.	2537-2756 (OA)
	2568-2582, 2537-2546.	FRAC: 100500 GAL FOAMED GEL & 366000#	2537-2756 (OA)
		12/20 SD.	

TUBING RECORD	Size	Set At	Packer At	Liner Run ☐ Yes ☒ No

Date of First, Resumed Production, SWD or Inj. FIRST: 2-1-97 Producing Method ☒ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		710	-		

Disposition of Gas:

☐ Vented ☒ Sold ☐ Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled

☐ Other (Specify) _____

Production Interval

2537-2756 (OA)

KCC

ORIGINAL

ANADARKO PETROLEUM CORPORATION
SHELL A-2H
SECTION 13-T33S-R38W
MORTON COUNTY, KANSAS

15-189-22111

COMMENCED: 12-19-96
COMPLETED: 12-22-96

SURFACE CASING: 630' OF 8 5/8" CMTD W/120 SKS CLASS "C" + 3% D79 +.2% D46 + 2% SI + 1/4# SK FLOCELE TAILED IN W/100 SKS CLASS C + 2% SI + 1/4 #/SK FLOCELE.

FORMATION	DEPTH
SURFACE HOLE	0 - 630
RED BED	630 - 1180
GLORIETTA	1180 - 1358
RED BED	1358 - 2170
RED BED & CHASE	2170 - 2529
CHASE	2529 - 2900 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

WRAY VALENTINE

RECEIVED
KANSAS CORP COMM
1997 MAR -7 P 2:25

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 23RD DAY OF DECEMBER, 1996.

JOLENE K. RUSSELL
State of Kansas
My Appt. Exp. 9-1-99

JOLENE K. RUSSELL

Jolene K Russell

NOTARY PUBLIC

CEMENTING SERVICE REPORT

Schlumberger
Dowell
DOWELL SCHLUMBERGER INCORPORATED

OS-496-A PRINTED IN U.S.A.

TREATMENT NUMBER	DATE
03-12-8841	22 Dec
STAGE / DS	DISTRICT: Ulysses, KS

WELL NAME AND NO.: Shell A-2H
LOCATION (LEGAL): Sec. 13-33S-38W
FIELD-POOL: Hugoton
FORMATION: Chase
COUNTY/PARISH: Stevens
STATE: KS
API. NO.:

NAME: Anadarko Petroleum Company
AND:
ADDRESS:
ZIP CODE:

RIG NAME: Cheyenne 8

WELL DATA:		BOTTOM	TOP
BIT SIZE 7 7/8	CSG/Liner Size	5 1/2	
TOTAL DEPTH 2900	WEIGHT	14	
ROT ☐ CABLE	FOOTAGE	2899	
MUD TYPE	GRADE		
☐ BHST ☐ BHCT 100°F	THREAD	8RD	
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)	8	TOTAL
MUD VISC.	Disp. Capacity	70	70

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

ORIGINAL

Float	TYPE	Insert-Fill	Stage Tool	TYPE	
	DEPTH	2892		DEPTH	
SHOE	TYPE	Cement Nose		TYPE	
	DEPTH	2898		DEPTH	

SPECIAL INSTRUCTIONS: Safely deliver and cement 5½" production string as directed by client

Head & Plugs	☐ TBG ☐ D.P.	SQUEEZE JOB	
☐ Double	SIZE	TOOL TYPE	
☒ Single	☐ WEIGHT	DEPTH	
☐ Swage	☐ GRADE	TAIL PIPE: SIZE	DEPTH
☐ Knockoff	☐ THREAD	TUBING VOLUME	Bbls
TOP ☒R ☐W	☐ NEW ☐ USED	CASING VOL. BELOW TOOL	Bbls
BOT ☐R ☐W	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 1400 PSI
ROTATE RPM RECIPROCATE 10 FT No. of Centralizers 18

JOB SCHEDULED FOR TIME: 1000 DATE: 22 Dec.
ARRIVE ON LOCATION TIME: 1000 DATE: 22 Dec.
LEFT LOCATION TIME: 1500 DATE: 22 Dec.

TIME 0001 to 2400	PRESSURE TBG OR D.P.	PRESSURE CASING	VOLUME PUMPED BBL INCREMENT	VOLUME PUMPED BBL CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
1230								PRE-JOB SAFETY MEETING
1245	~~200~~	2000	—	—	—	H_2O	8.34	Psi-test
1250		200	8	—	5.9	H_2O	8.34	Start H_2O ahead
1253		300	10	8	5.9	Wash	8.34	Start Wash
1257		350	8	18	5.9	H_2O	8.34	Start H_2O
1300		300	97	~~126~~ 126	5.9	LEAD	11.1	Start Lead
1315		200	43	121	5.9	TAIL	12.8	Start Tail
1324		200	—	165	~~5.9~~	H_2O	8.34	Shutdown-Wash up
1329		—	—	165	—	H_2O	8.34	Drop Plug
1330		200	70	165	5.9	H_2O	8.34	Start Displacement
1345		1100	—	235	2	H_2O	8.34	Bump Plug

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REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS	SLURRY MIXED BBLS	SLURRY MIXED DENSITY
1.	170	3.2	Class C + 3% D79 + 0.2% D46 + 0.25#/sk D29 + 2% S1	95	11.1
2.	120	2.0	Class C + 3% D79 + 0.2% D46 + 0.25#/sk D29 + 2% S1	44	12.8
3.					
4.					
5.					
6.					

BREAKDOWN FLUID TYPE VOLUME DENSITY
☐ HESITATION SQ. ☐ RUNNING SQ.
BREAKDOWN PSI FINAL PSI
Washed Thru Perfs ☐ YES ☐ NO TO FT.
PERFORATIONS
TO TO
TO TO

CIRCULATION LOST ☐ YES ☒ NO
DISPLACEMENT VOL. 70 Bbls
MEASURED DISPLACEMENT ☒ ☐ WIRELINE
CUSTOMER REPRESENTATIVE: Damasso

PRESSURE 1400 MAX. 0 MIN:
Cement Circulated To Surf. ☒ YES ☐ NO 106bbl/18 Sks
TYPE OF WELL ☐ OIL ☒ GAS ☒ STORAGE ☐ INJECTION ☐ BRINE WATER ☐ WILDCAT
DS SUPERVISOR: James Allbee

CEMENTING SERVICE REPORT

Schlumberger
Dowell
DOWELL SCHLUMBERGER INCORPORATED

DS-496-A PRINTED IN U.S.A.

TICKET NUMBER 98836 | 12-17-14
STAGE 1 | DS 03 | DISTRICT 12

WELL NAME AND NO. Shell A-2H
LOCATION (LEGAL) Sec. 13-33S-38W
FIELD-POOL Hugoton
FORMATION Surf.
COUNTY/PARISH Stevens
STATE KS
API. NO.

NAME Anadarko
AND
ADDRESS
ZIP CODE

SPECIAL INSTRUCTIONS
Baffle cmt, 85/8 as per customers instructions

IS CASING/TUBING SECURED? ☒ YES ☐ NO
LIFT PRESSURE 250 PSI | CASING WEIGHT + SURFACE AREA (3.14 x R²)
PRESSURE LIMIT 1500 PSI | BUMP PLUG TO 520 PSI
ROTATE RPM | RECIPROCATE FT | No. of Centralizers 4 + 1 Basket

RIG NAME: Cheyenne 8

WELL DATA:		BOTTOM	TOP
BIT SIZE 12 1/4	CSG/Liner Size	8 5/8	
TOTAL DEPTH 630	WEIGHT	24	
☒ ROT ☐ CABLE	FOOTAGE	630	
MUD TYPE	GRADE		
☐ BHST ☐ BHCT	THREAD	8RD	
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)	591	TOTAL
MUD VISC.	Disp. Capacity	39.6	

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

ORIGINAL

Float	TYPE	auto fill tot	Stage Tool	TYPE	
	DEPTH	591		DEPTH	
SHOE	TYPE	cmt. nose		TYPE	
	DEPTH	630		DEPTH	

Head & Plugs	☐ TBG ☐ D.P.	SQUEEZE JOB	
☐ Double	SIZE	TOOL TYPE	
☒ Single	☐ WEIGHT	TOOL DEPTH	
☐ Swage	☐ GRADE	TAIL PIPE: SIZE	DEPTH
☐ Knockoff	☐ THREAD	TUBING VOLUME	B
TOP ☒ R ☐ W	☐ NEW ☐ USED	CASING VOL. BELOW TOOL	B
BOT ☐ R ☐ W	DEPTH	TOTAL	B
		ANNUAL VOLUME	B.

JOB SCHEDULED FOR TIME: 2100 DATE: 12-19
ARRIVE ON LOCATION TIME: 2100 DATE: 12-19
LEFT LOCATION TIME: DATE:

TIME 0001 to 2400	PRESSURE TBG OR D.P.	PRESSURE CASING	VOLUME PUMPED BBL INCREMENT	VOLUME PUMPED BBL CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
								PRE-JOB SAFETY MEETING
0107				X		H20	8.3	PSI test
0107		200	10	X	5.6	11	11	start H20
0105		190	70	10	5.6	cmt.	11.1	LD cmt.
0117		170	24	85	5.6	cmt.	14.8	✓ TL cmt.
0123		240		110		11	11	Shut down ~~for~~
0125		120	38	2	5.6	H20	8.3	Drop Plug Start D.SP
0131		120		22	5.6	11	11	Cmt. to Surf
0133		170		32	5.6	11	11	Lower Rate
0135		125		35	2	11	11	PSI check
0139		520		38	2	11	11	Bump Plug
0140								Bleed PSI check Floats

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1901 MAR -7 PM 2

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS	SLURRY MIXED BBLS	SLURRY MIXED DENSITY
1.	120	3.2	"C" + 3% D-79 + 0.2% D-46 + 2% S-1 + 1/4 #/sk D-29	70	11.1
2.					
3.	100	1.34	"C" + 2% S-1 + 1/4 #/sk D-29	24	14.8
4.					
5.					
6.					

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE MAX. 520 MIN: 125
☐ HESITATION SQ. ☐ RUNNING SQ.	CIRCULATION LOST	☐ YES ☒ NO	Cement Circulated To Surf. ☒ YES ☐ NO 15 Bbl
BREAKDOWN PSI FINAL PSI	DISPLACEMENT VOL. 38	Bbls	TYPE OF WELL ☐ OIL ☒ GAS ☐ STORAGE ☐ INJECTION ☐ BRINE WATER ☐ WILDCAT 26 5/8
Washed Thru Perfs ☐ YES ☐ NO TO FT.	MEASURED DISPLACEMENT ☐	☐ WIRELINE	
PERFORATIONS TO TO TO TO	CUSTOMER REPRESENTATIVE Ramos		DS SUPERVISOR Ray Pearson

CEMENTING SERVICE REPORT

Schlumberger
Dowell
DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 03-12-0841 | DATE 22 Dec
STAGE | DS | DISTRICT Ulysses, KS

OS-496-A PRINTED IN U.S.A.

WELL NAME AND NO. Shell A-2H
LOCATION (LEGAL) Sec. 13-33S-38W
FIELD-POOL Hugoton
FORMATION Chase
COUNTY/PARISH Stevens
STATE KS
API. NO.

NAME Anadarko Petroleum Company
AND
ADDRESS
ZIP CODE

SPECIAL INSTRUCTIONS
Safely deliver and cement 5½" production string as directed by client

RIG NAME: Cheyenne 8

WELL DATA:		BOTTOM	TOP
BIT SIZE 7⅞	CSG/Liner Size	5½	
TOTAL DEPTH 2900	WEIGHT	14	
☒ ROT ☐ CABLE	FOOTAGE	2899	
MUD TYPE	GRADE		
☐ BHST ☐ BHCT 100°F	THREAD	8RD	
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)	8	TOTAL
MUD VISC.	Disp. Capacity	70	70

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

ORIGINAL

Float	TYPE	Insert-Fill	Stage Tool	TYPE	
	DEPTH	2892		DEPTH	
SHOE	TYPE	Cement Nose		TYPE	
	DEPTH	2898		DEPTH	

Head & Plugs	☐ TBG ☐ D.P.	SQUEEZE JOB	
☐ Double	SIZE	TOOL	TYPE
☒ Single	☐ WEIGHT		DEPTH
☐ Swage	☐ GRADE	TAIL PIPE: SIZE	DEPTH
☐ Knockoff	☐ THREAD	TUBING VOLUME	Bbls
TOP ☒ R ☐ W	☐ NEW ☐ USED	CASING VOL. BELOW TOOL	Bbls
BOT ☐ R ☐ W	DEPTH	TOTAL	Bbls
		ANNUAL VOLUME	Bbls

IS CASING/TUBING SECURED? ☒ YES ☐ NO
LIFT PRESSURE PSI CASING WEIGHT + SURFACE AREA (3.14 × R²)
PRESSURE LIMIT PSI BUMP PLUG TO 1100 PSI
ROTATE RPM RECIPROCATE 10 FT. No. of Centralizers 18

JOB SCHEDULED FOR TIME: 1000 DATE: 22 Dec.
ARRIVE ON LOCATION TIME: 1000 DATE: 22 Dec.
LEFT LOCATION TIME: 1500 DATE: 22 Dec.

TIME 0001 to 2400	PRESSURE TBG OR D.P.	PRESSURE CASING	VOLUME PUMPED BBL INCREMENT	VOLUME PUMPED BBL CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
1230								PRE-JOB SAFETY MEETING
1245	~~200~~	2000	—	—	—	H_2O	8.34	Psi-test
1250		200	8	—	5.9	H_2O	8.34	Start H_2O ahead
1253		300	10	8	5.9	Wash	8.34	Start Wash
1257		350	8	10	5.9	H_2O	8.34	Start H_2O
1300		300	97	~~126~~ 126	5.9	LEAD	11.1	Start Lead
1315		200	43	121	5.9	TAIL	12.8	Start Tail
1324		200	—	165	~~5.9~~	H_2O	8.34	Shutdown Wash up
1329		—	—	165	—	H_2O	8.34	Drop Plug
1330		200	70	165	5.9	H_2O	8.34	Start Displacement
1345		1100	—	235	2	H_2O	8.34	Bump Plug

RECEIVED
KANSAS CORPORATION COMMISSION
JAN 11 2013
CONSERVATION DIVISION

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS	SLURRY MIXED BBLS	SLURRY MIXED DENSITY
1.	170	3.2	Class C + 3% D79 + 0.2% D46 + 0.25#/sk D29 + 2% S1	95	11.1
2.	120	2.0	Class C + 3% D79 + 0.2% D46 + 0.25#/sk D29 + 2% S1	44	12.8
3.					
4.					
5.					
6.					

BREAKDOWN FLUID TYPE VOLUME DENSITY
☐ HESITATION SQ. ☐ RUNNING SQ.
BREAKDOWN PSI FINAL PSI
Washed Thru Perfs ☐ YES ☐ NO TO FT.

CIRCULATION LOST ☐ YES ☒ NO
DISPLACEMENT VOL. 70 Bbls
MEASURED DISPLACEMENT ☒ ☐ WIRELINE

PRESSURE 1100 MAX. MIN:
Cement Circulated To Surf. ☒ YES ☐ NO 10 Bbls/18 Sks
TYPE OF WELL ☐ OIL ☒ GAS ☐ STORAGE ☐ INJECTION ☐ BRINE WATER ☐ WILDCAT

PERFORATIONS
TO TO
TO TO

CUSTOMER REPRESENTATIVE Damasso
DS SUPERVISOR James Allbee

CEMENTING SERVICE REPORT

Schlumberger
Dowell
DOWELL SCHLUMBERGER INCORPORATED

DS-496-A PRINTED IN U.S.A.

TREATMENT NUMBER 5836 | DATE 12-19-96
STAGE 1 | DS 03 | DISTRICT 12

WELL NAME AND NO. Shell A-2H
LOCATION (LEGAL) Sec, 13-33S-38W
FIELD-POOL Hugoton
FORMATION Surf.
COUNTY/PARISH Stevens
STATE KS
API. NO.

NAME Anadarko
AND
ADDRESS
ZIP CODE

SPECIAL INSTRUCTIONS
Baffle cmt, 8 5/8 as per customers instructions

IS CASING/TUBING SECURED? ☒ YES ☐ NO
LIFT PRESSURE 250 PSI | CASING WEIGHT + SURFACE AREA (3.14 x R²)
PRESSURE LIMIT 1500 PSI | BUMP PLUG TO 520 PSI
ROTATE RPM | RECIPROCATE FT | No. of Centralizers 4+1 Basket

RIG NAME: Cheyenne 8

WELL DATA:		BOTTOM	TOP
BIT SIZE 12 1/4	CSG/Liner Size	8 5/8	
TOTAL DEPTH 630	WEIGHT	24	
☒ ROT ☐ CABLE	FOOTAGE	630	
MUD TYPE	GRADE		
☐ BHST ☐ BHCT	THREAD	8RD	
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)	591	
MUD VISC.	Disp. Capacity	37.6	

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

ORIGINAL

TOTAL

Float	TYPE	AUTO FILL	Stage Tool	TYPE	
	DEPTH	591		DEPTH	
SHOE	TYPE	cmt, nose		TYPE	
	DEPTH	630		DEPTH	

Head & Plugs	☐ TBG ☐ D.P.	SQUEEZE JOB	
☐ Double	SIZE	TOOL TYPE	
☒ Single	☐ WEIGHT	TOOL DEPTH	
☐ Swage	☐ GRADE	TAIL PIPE: SIZE	DEPTH
☐ Knockoff	☐ THREAD	TUBING VOLUME	B
TOP ☒R ☐W	☐ NEW ☐ USED	CASING VOL. BELOW TOOL	B
BOT ☐R ☐W	DEPTH	TOTAL	B
		ANNUAL VOLUME	B

JOB SCHEDULED FOR TIME: 2100 DATE: 12-19
ARRIVE ON LOCATION TIME: 2100 DATE: 12-19
LEFT LOCATION TIME: DATE:

TIME (0001 to 2400)	PRESSURE TBG OR D.P.	PRESSURE CASING	VOLUME PUMPED BBL INCREMENT	VOLUME PUMPED BBL CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
								PRE-JOB SAFETY MEETING
0107				X		H20	8.3	PSI test
0108		200	16	X	5.6	11	11	start H20
0105		190	70	18	5.6	cmt.	11.1	↓ lead cmt.
0117		170	24	86	5.6	cmt.	14.8	↓ Tail cmt.
0123		240		110		11	11	Shut Down Wash Pmp & Lines
0125		120	38	X	5.6	H20	8.7	Drop Plug Start H2O Disp
0131		120		22	5.6	11	11	Cmt to Surf
0133		170		32	5.6	11	11	Lower Rate
0135		125		35	2	11	11	PSI check
0139		520		38	2	11	11	Bump Plug
0140								Bleed PSI check Floats

RECEIVED
JAN 31 1997
KCC WICHITA

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS	SLURRY MIXED BBLS	SLURRY MIXED DENSITY
1.	120	3.2	"C" + 3% D-79 + 0.2% D-46 + 2% S-1 + 1/4 #/SK D-29	70	11.1
2.					
3.	100	1.34	"C" + 2% S-1 + 1/4 #/SK D-29	24	14.8
4.					
5.					
6.					

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE MAX. 520 MIN: 125
☐ HESITATION SQ. ☐ RUNNING SQ.	CIRCULATION LOST	☐ YES ☒ NO	Cement Circulated To Surf. ☒ YES ☐ NO 15 Bbls
BREAKDOWN PSI FINAL PSI	DISPLACEMENT VOL. 38	Bbls	TYPE OF WELL ☐ OIL ☒ GAS ☐ STORAGE ☐ INJECTION ☐ BRINE DISP. ☐ WILDCAT 26 SKS
Washed Thru Perfs ☐ YES ☐ NO TO FT.	MEASURED DISPLACEMENT	☐ WIRELINE	

PERFORATIONS TO TO TO TO	CUSTOMER REPRESENTATIVE Tomaso	DS SUPERVISOR Ray Pearson