

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

API NO. 15-181-20,297-00 ORIGINAL

County Sherman

150' W - SW - NE - NW Sec. 21 Twp. 6S Rge. 37W XX ^E _W

990' Feet from S(N)(circle one) Line of Section

1500' 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 QUERY Well # 1

Field Name Llanos Southwest

Producing Formation Pawnee Lime

Elevation: Ground 3441' KB 3446'

Total Depth 4910' PBTD 4817'

Amount of Surface Pipe Set and Cemented at 362.38' 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 4-3-96
(Data must be collected from the Reserve Pit)

Chloride content 30,000 ppm Fluid volume 1100 bbls

Dewatering method used Evaporation

Location of fluid RELEASED hauled offsite:

Operator Name MAR 11 1997 KCC

Lease Name _____ License No. _____

Quarter Sec. Twp. S. Rns. AI/W

County _____ Docket No. CON

Operator: License # 9482

Name: National Petroleum Reserves, Inc.

Address 250 N. Rock Rd. ,

Suite 130

City/State/Zip Wichita, Ks. 67206

Purchaser: _____

Operator Contact Person: Ted C. Bredehoff

Phone (316) 681-3515

Contractor: Name: Abercrombie RTD, Inc.

License: 30684

Wellsite Geologist: Dan DeBoer

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

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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. _____

12-12-95 12-19-95 12-20-95
Spud Date Date Reached TD Completion Date

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 in 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 Jacob Bredehoff
Title President Date 2/21/96

Subscribed and sworn to before me this 21ST day of FEBRUARY, 19 96.

Notary Public T.C. Bredehoff, II

Date Commission Expires 7-31-99

Rec'd 2-22-96

T. C. BREDEHOFF, II
Notary Public - State of Kansas
My Appt. Expires 7-31-99

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 National Petroleum Reserves, Inc. Lease Name QUERY Well # 1
Sec. 21 Twp. 6S Rge. 37W East County Sherman
 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: RA GUARD
CORRELATION/CEMENT BOND

Name	Formation (Top), Depth and Datums		Datum
	Top		
Base/Anhydrite	3120	+326	
Heebner	4237	-791	
Lansing	4292	-846	
Marmaton	4567	-1121	
Pawnee	4626	-1230	
Cherokee Sh	4774	-1328	

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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"	20#	362.38'	60/40 pos	245 sks	2% gel, 3% CC
Production	7 7/8"	4 1/2"	10.5#	4861.11'	EA2 cement	165 sks	20bbls salt flush 500 gals mud flush

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<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	
	4	4684 to 4688		250 gal 15% MCA, 1000 gal 15% NE, and 2000 gal 20% SGA

TUBING RECORD		Size	Set At	Packer At	Liner Run			
		2 3/8"	4804'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First, Resumed Production, SWD or Inj.		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)						
1/11/96								
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
	32				4			39

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: 4684'-4688'

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KCC

FEB 21

CONFIDENTIAL

15-181-20297

DRILL STEM TEST RESULTS										
DST	Date	Formation	Int Start	Int End	ISIP	FSIP	IFP	FFP	Time Interval	
4		Pawnee	4665	4700	1207	1147	50-71	81-101	30-30-30-60	
1st Open: BOB in 18'			2nd Open: BOB in 20min				Recovery: 467 gip, 82' clean oil, (39 grav), 124' ocm			
3		Pawnee	4666	4700	1406	1207	71-81	121-172	30-30-60-90	
1st Open: BOB in 19 min			2nd Open: BOB in 17 min				Recovery: 310 gip, 279 clean gassy oil (39 grav), 155' gassy ocm			
2		Altamont	4606	4655	176	71	50-50	50-50	30-30-30-30	
1st Open: 1/4" blow			2nd Open: no blow, flushed, surge, blow died				Recovery: 15' mud w/ oil spots, scum oil on top			
1		Marmaton	4557	4599	91	81	50-50	50-50	30-30-30-30	
1st Open: wk surf blow			2nd Open: no blow, flused, surge, no blow				Recovery: 10' mud			

RELEASED

MAR 11 1997

FROM CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

FEB 22 1996

CONSERVATION DIVISION
WICHITA, KS

REMIT TO:
P.O. BOX 951036
DALLAS, TX 75209-1046



INVOICE

1/27/96

ORIGINAL

INVOICE NO.	DATE
915031	12/19/1999

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
QUERY 1		SHERMAN		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
HAYS	ABERCROMBIE #8	CEMENT PRODUCTION CASING		12/19/1999	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
623541	CHARLES SCHMIDT			COMPANY TRUCK	0127

CONFIDENTIAL

NATIONAL PETROLEUM RESERVES
250 N ROCK ROAD SUITE 130
WICHITA, KS 67206

DIRECT CORRESPONDENCE TO:

P O BOX 428
HAYS KS 67601
913-625-3431

FEB 21

FEB 22 1996

CONFIDENTIAL

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	280	MI	2.85	798.00
		1	UNT		
001-016	CEMENTING CASING	4861	FT	1,765.00	1,765.00
		1	UNT		
030-016	CEMENTING PLUG SW ALUM TOP	4	1/2 IN	45.00	45.00
		1	EA		
12A	GUIDE SHOE - 4 1/2" 8RD THD.	1	EA	95.00	95.00
825.201					
24A	INSERT FLOAT VALVE - 4 1/2" 8RD	1	EA	91.00	91.00
815.19101					
27	FILL-UP UNIT 4 1/2"-5"	1	EA	47.00	47.00
815.19111					
40	CENTRALIZER 4-1/2 X 7-7/8	6	EA	45.00	270.00
806.60004					
66	CLAMP-LIMIT-4-1/2-HINGED-	1	EA	11.00	11.00
806.72019					
018-315	MUD FLUSH	500	GAL	.65	325.00
350	HALLIBURTON WELD-A	1	EA	16.75	16.75
890.10802					
509-968	SALT	200	LB	.15	30.00
504-308	CEMENT - STANDARD	180	SK	8.86	1,594.80
509-968	SALT	150	LB	.15	172.50
508-127	CAL SEAL 60	8	SK	25.90	207.20
507-970	D-AIR 1, POWDER	45	LB	3.25	146.25
507-775	HALAD-322	85	LB	7.00	595.00
500-207	BULK SERVICE CHARGE	208	CFT	1.35	280.80
500-306	MILEAGE CMTG MAT DEL OR RETURN	1330.000	TMI	.95	1,263.50
INVOICE SUBTOTAL					7,753.80

***** CONTINUED ON NEXT PAGE *****

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.



HALLIBURTON ORIGINAL

REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE NO.	DATE
915031	12/19/19

NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER
	SHERMAN	KS	SAME

LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
	ABERCROMBIE #8	CEMENT PRODUCTION CASING	12/19/19

NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE #
323541	CHARLES SCHMIDT	CONFIDENTIAL		COMPANY TRUCK	012

NATIONAL PETROLEUM RESERVES
250 N ROCK ROAD SUITE 130
WICHITA, KS 67206

DIRECT CORRESPONDENCE TO:

P O BOX 428
HAYS KS 67601
913-625-3431

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	DISCOUNT- (BID)				1,938.43
	INVOICE BID AMOUNT				5,815.37
	JOB ADJUSTMENT(S)				1,000.00
	*-KANSAS STATE SALES TAX				171.36
	*-HAYS CITY SALES TAX				34.98

RELEASED
MAR 11 1997
FROM CONFIDENTIAL

INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====> \$5,021.71

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs. Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

JOB
SUMMARY

HALLIBURTON DIVISION MIDCONTINENT

HALLIBURTON LOCATION HAYS

BILLED ON TICKET NO. 95831

WELL DATA

SEC. 21 TWP. 6S RNG. 31W COUNTY Sherman STATE KS

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	10.5	4 1/2	0	4861	
LINER						
TUBING						
OPEN HOLE			7 7/8	4861	4910	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>12-19</u>	DATE <u>12-19</u>	DATE <u>12-19</u>	DATE <u>12-29</u>
TIME <u>0900</u>	TIME <u>1400</u>	TIME <u>102230</u>	TIME <u>0030</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
G. Palmberg	41489	HAYS
G. Blessing	52160	HAYS
C. Dodson	H 1659	HAYS
T. Henry	71010	HAYS
R. Kuhn	51361	HAYS
R. Legleiter	B 0719	HAYS
G. Belden	36893	HAYS
D. Mass	26441	HAYS

CEMENT

DEPARTMENT CEMENT
DESCRIPTION OF JOB CEMENT PRODUCTION CSG

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE X Gail Palmberg

HALLIBURTON OPERATOR Gail Palmberg COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	180	EA-2		8	5% Calseal, 15% Salt, 1/4% D-AIR, 1/2% HAD-322	128	15.8

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET 42 REASON SHOE JOINT

SUMMARY

PRESLUSH: BBL. 20 TYPE SALT FLUSH
 LOAD & BKDN: BBL. 12 MUD FLUSH PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL: BBL. 77
 CEMENT SLURRY: BBL. 41
 TOTAL VOLUME: BBL. 150

REMARKS

SEE JOB LOG
THANK YOU
Hail, Mary + Craig

FIELD OFFICE

CONFIDENTIAL

FROM CONFIDENTIAL

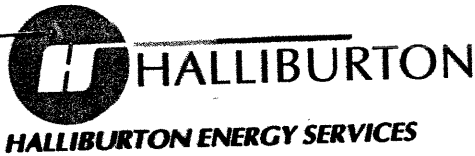
RELEASED

Halliburton
for and Customer
agrees to waive
rights that Halliburton, Reg
materials are ob.
agrees to waive
rights that Halliburton, Reg
materials are ob.

ING LAW - The
materials are ob.

agrees to waive

rights that Halliburton, Reg
materials are ob.



CHARGE TO: National Petroleum Reserves
 ADDRESS: 250 N. Rock Road # 340
 CITY, STATE, ZIP CODE: Wichita, KS 67206

CUSTOMER COPY

TICKET

No. 915031 - 7

PAGE 1 OF 2

HAL-1906-N
 SERVICE LOCATIONS: 1. Hays 25525
 WELL/PROJECT NO.: 1
 LEASE: Query
 COUNTY/PARISH: Sherman
 STATE: KS
 CITY-OFFSHORE LOCATION: Brewster, KS
 DATE: 12-10-95
 OWNER: NPR
 TICKET TYPE: SERVICE SALES
 NITROGEN JOB? YES NO
 CONTRACTOR: Abercrombie-RTD
 RIG NAME/NO.: 8
 SHIPPED VIA: CT
 DELIVERED TO: wellsite
 WELL PERMIT NO.: API 15-181-20297
 WELL LOCATION: 11-N 5-W Brewster, KS
 REFERRAL LOCATION: [Blank]
 INVOICE INSTRUCTIONS: 01 01 035

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING LOC AC DF	DESCRIPTION	QTY.		U/M	QTY.		U/M	UNIT PRICE	AMOUNT
000-117			MILEAGE	290		mi				2.85	792.00
001-016			Pump Service	4861		FT				1.765	1765.00
030-016			Top Plug	1		EA	4 1/2		W	45.55	45.55
12A	825.201		Guide Shoe	1		EA	4 1/2		W	95.00	95.00
24A	815.19101		Insert Float	1		EA	4 1/2		W	91.00	91.00
27	815.19111		Fillup Unit	1		EA				47.00	47.00
40	806.60004		Centralizer	6		EA	4 1/2		W	45.00	270.00
66	806.72019		Limit Clamp	1		EA	4 1/2		W	11.00	11.00
			Rotating Head							.65	
018-315			MUD Flush	500		gal				.65	325.00
350	890.10802		Howco Weld	1		lb				16.75	16.75
509-968			SALT	200		lb				.15	30.00

RELEASED FROM CONFIDENTIAL

ORIGINAL

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO WORK OR DELIVERY OF GOODS

[Signature]

TIME SIGNED A.M. P.M.

Wire IPC (Instrument Protection) Not offered

SUB SURFACE SAFETY VALVE WAS:
 PULLED & RETURN PULLED RUN

TYPE LOCK DEPTH
 BEAN SIZE SPACERS
 TYPE OF EQUALIZING SUB. CASING PRESSURE
 TUBING SIZE TUBING PRESSURE WELL DEPTH
 TREE CONNECTION TYPE VALVE

SURVEY

AGREE UN-DECIDED DIS-AGREE

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 WE UNDERSTOOD AND MET YOUR NEEDS?
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 ARE YOU SATISFIED WITH OUR SERVICE?
 YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 3493
 FROM CONTINUATION PAGE(S): 4260
 SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE: 7753

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

HALLIBURTON OPERATOR/ENGINEER EMP # HALLIBURTON APPROVAL
 Gail Palmborg 41487 55P

REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046



HALLIBURTON

Cement, surface casing

INVOICE NO.	DATE
914983	12/11/19

ORIGINAL

INVOICE

1/10/96

WELL LEASE NO./PROJECT QUERY 1		WELL/PROJECT LOCATION SHERMAN		STATE KS	OWNER SAME
SERVICE LOCATION HAYS	CONTRACTOR ABERCROMBIE DRILLING	JOB PURPOSE CEMENT SURFACE CASING		TICKET DATE 12/11/19	
ACCT. NO. 623541	CUSTOMER AGENT ANTHONY MARTIN	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA COMPANY TRUCK	FILE # 008

CONFIDENTIAL

NATIONAL PETROLEUM RESERVES
250 N ROCK ROAD SUITE 130
WICHITA, KS 67206

DIRECT CORRESPONDENCE TO:
P O BOX 428
HAYS KS 67601
913-625-3431

ORIGINAL

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	280	MI	2.85	798.00
		1	UNT		
001-016	CEMENTING CASING	368	FT	630.00	630.00
		1	UNT		
030-503	WOODEN PLUG	8 5/8	IN	95.00	95.00
		1	EA		
504-136	CEMENT - 40/60 POZMIX STANDARD	245	SK	7.16	1,754.20
506-121	HALLIBURTON-GEL 2%	400	LB	.00	N/C
509-406	ANHYDROUS CALCIUM CHLORIDE	6	SK	36.75	220.50
500-207	BULK SERVICE CHARGE	257	CFT	1.35	346.95
500-306	MILEAGE CMTG MAT DEL OR RETURN	1445.64	TMI	.95	1,373.36

INVOICE SUBTOTAL	5,218.01
DISCOUNT-(BID)	1,304.49
INVOICE BID AMOUNT	3,913.52
*-KANSAS STATE SALES TAX	139.28
*-HAYS CITY SALES TAX	28.42

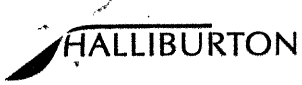
RELEASED

MAR 11 1997

FROM CONFIDENTIAL

INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====> \$4,081.22

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

MID Cont
HAYS KS

BILLED ON TICKET NO. 914983

WELL DATA

FIELD _____ SEC. 21 TWP. 6 RNG. 37 COUNTY Sherman STATE Ks

FORMATION NAME _____ TYPE _____
 FORMATION THICKNESS _____ FROM _____ TO _____
 INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
 PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
 COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
 PACKER TYPE _____ SET AT _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA _____ TOTAL DEPTH 363

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	4	20	8 7/8	KB	362	
LINER						
TUBING						
OPEN HOLE				342	363	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>12-11-95</u> TIME <u>1800</u>	DATE <u>12-11-95</u> TIME <u>2345</u>	DATE <u>12-12-95</u> TIME <u>0000</u>	DATE _____ TIME <u>0100</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG <u>LA-11 8 7/8 1"</u>	<u>1</u>	<u>HALLIBURTON</u>
HEAD		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>A. J. Worth 26101</u>	<u>40071 PU.</u>	<u>HAYS KS</u>
<u>R. Sorrens 57220</u>	<u>51797 PT</u>	<u>HAYS KS</u>
<u>N. Kurbic H3115</u>	<u>38604</u>	<u>HAYS KS</u>

CONFIDENTIAL

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB./GAL. °API
 DISPL. FLUID _____ DENSITY _____ LB./GAL. °API
 PROP. TYPE _____ SIZE _____ LB.
 PROP. TYPE _____ SIZE _____ LB.
 ACID TYPE _____ GAL. _____ %
 ACID TYPE _____ GAL. _____ %
 ACID TYPE _____ GAL. _____ %
 SURFACTANT TYPE _____ GAL. _____ IN
 NE AGENT TYPE _____ GAL. _____ IN
 FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN
 GELLING AGENT TYPE _____ GAL.-LB. _____ IN
 FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN
 BREAKER TYPE _____ GAL.-LB. _____ IN
 BLOCKING AGENT TYPE _____ GAL.-LB. _____ IN
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

RELEASED

DEC 11 1997

FROM CONFIDENTIAL

DEPARTMENT cont
 DESCRIPTION OF JOB 8 7/8 surface

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE X Anthony West
 HALLIBURTON OPERATOR Allen + Wank
 COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>245</u>	<u>40/60</u>	<u>Port</u>	<u>B</u>	<u>240 gal 3% cc</u>	<u>1.29</u>	<u>1417</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. _____ TYPE _____
 BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 22.6
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL.-GAL. 26.8
 HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET 15 REASON Requested

REMARKS

See Job Log sheet
11 hrs. 20 min. for work

FIELD OFFICE

