

ORIGINAL

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

API NO. 15- 181-202980000

County Sherman

NE - SW - SW - Sec. 16 Twp. 6 Rge. 37 X E/W

Operator: License # 9482

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

Name: National Petroleum Reserves, Inc

4290 Feet from E/W (circle one) Line of Section

Address 250 N Rock Rd Suite 130

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

Wichita, KS 67207

Lease Name HOYT Well # 1

City/State/Zip \_\_\_\_\_

Field Name Llanos Southwest

Purchaser: KOCH

Producing Formation Altamont and Pawnee

Operator Contact Person: Ted C Bredehoff

Elevation: Ground 3438 KB 3448

Phone (316) 681-3515

Total Depth 4900' PBDT 4850

Contractor: Name: White and Ellis

Amount of Surface Pipe Set and Cemented at 363 Feet

License: \_\_\_\_\_

Multiple Stage Cementing Collar Used? Yes ~~No~~

Wellsite Geologist: Mike Dixon

If yes, show depth set \_\_\_\_\_ Feet

Designate Type of Completion  
 New Well  Re-Entry  Workover

If Alternate II completion, cement circulated from \_\_\_\_\_

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

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ ~~6x~~ cmt.

If Workover/Reentry: Old Well Info as follows:

Drilling Fluid Management Plan ALT 1 82W 11-14-97  
(Data must be collected from the Reserve Pit) 5-13-97

Operator: \_\_\_\_\_

Chloride content 8,000 ppm Fluid volume 190 bbls

Well Name: \_\_\_\_\_

Dewatering method used dehydration

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBDT  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

1-17-97 1-26-97 2-10-97  
Spud Date Date Reached TD Completion Date

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

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 [Signature]  
Title President Date 4/28/97

Subscribed and sworn to before me this 28<sup>th</sup> day of April, 19 97.

Notary Public [Signature]  
Date Commission Expires 5-13-2001

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)

**SUSAN E. BREDEHOFF**  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appt. Exp. 5-13-2001

Operator Name National Petroleum Reserves Lease Name HOYT Well # 1

Sec. 16 Twp. 6 Rge. 37  East  West  
 County Sherman

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: **RADIATION GUARD**  
**CEMENT BOND**

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Name	Top	Datum
Anhydrite	3093 +355	
B/Anhy.	3127 +321	
Heebner	4243 -795	
Lansing	4298 -850	
Stark	4503 -1055	
Marmaton	4574 -1126	
Altamont	4598 -1158	
Pawnee	4680 -1232	
Ft Scott	4748 -1300	
Cherokee	4776 -1328	

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"	20#	363'	poz 40/60	265	2%ge13%c.c.
Production	7 7/8"	4 1/2"	10.5#	4902'	EA-2	185	10%ge115%salt

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	4628-32 Altamont 'B'	1000gal 20% SGA	4632
4	4645-48 Altamont 'C'	1000 gal 20% SGA	4648
4	4680-86 & 4688-94 Pawnee	750 gal 15% MCA 3000 gal SGA	4694

TUBING RECORD Size 2 3/8" Set At 4751 Packer At na Liner Run  Yes  No

Date of First, Resumed Production, SWD or Inj. 2-10-97 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours Oil 14 Bbls. Gas 13 Mcf Water 13 Bbls. Gas-Oil Ratio 31 Gravity 31

Disposition of Gas: METHOD OF COMPLETION

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

Open Hole  Perf.  Dually Comp.  Conmingled  
 Other (Specify) \_\_\_\_\_

Production Interval

4628'-4632'  
4645'-4648'  
4680'-4686'  
4688'-4694'

ORIGINAL

15-181-20798

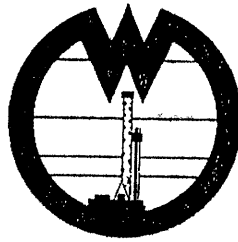
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KANSAS CORP COMM

1997 MAY 13 12:54

HOYT #1

## DRILL STEM TEST RESULTS

DST	Date	Formation	Int Start	Int End	ISIP	FSIP	IFP	FFP	Time Interval
1		Muncie Creek	4449	4505	1340	1322	71-80	85-95	30-30-30-30
<b>1st Open:</b>	wk blow bldg to 2" then dec to 1/2"		<b>2nd Open:</b> no blow, 10'-wk sur blow			<b>Recovery:</b> 75' drlg mud w/ spts oil on tool			
2		Altamont B&C	4603	4655	0	0			
<b>1st Open:</b>	<b>2nd Open:</b>			<b>Recovery:</b> MISRUN					
3		Altamont B&C	4553	4655	1192	1191	166-392	415-534	30-30-30-45
<b>1st Open:</b>	gd bldg to str blow off btm in 2 1/4"		<b>2nd Open:</b> gd bldg to stg off BOB in 6", gd blow back on shut in			<b>Recovery:</b> 1775' gip, 770' cgo, 300' gmo (38%g, 42%o, 20%m), 120' gmo (32%g, 38%o, 30%m), 60' hgcmo (43%g, 23%o, 34%m)			
4		Pawnee	4661	4690	1352	1267	91-305	315-472	30-30-30-60
<b>1st Open:</b>	gd bldg to stg blow off bob in 2 1/4"		<b>2nd Open:</b> gd bldg to stg blow off bob in 6"			<b>Recovery:</b> 900' gip, 950' cgo, 90' mcgo (49%g, 39%o, 12%m), 60' mcgo (54%g, 38%o, 8%m)			



ORIGINAL

# WHITE

AND ELLIS DRILLING, Inc.

## DRILLERS LOG

15-181-20298

Operator: National Petroleum Reserves, Inc.  
250 N. Rock Road - Suite 130  
Wichita, KS 67206

Contractor: White & Ellis Drilling, Inc.  
P. O. Box 48848  
Wichita, KS 67201-8848

Lease Name Hoyt Well No. 1  
Spot NE SW SW Section 16 Township 6S Range 37W  
County Sherman State Kansas

### Casing Record:

Surface: 8 5/8" @ 363' with 265 sx.  
Production: 4 1/2" @ 4899' with 185 sx.

Type Well: Oil/Gas Total Depth 4900'

Drilling Commenced: 1-17-97 Drilling Completed: 1-26-97

<u>Formation</u>	<u>From</u>	<u>To</u>	<u>Tops</u>	
Cellar	0	5	Kansas City	4450
Clay, Shale & Sand	5	1075	Marmaton	4595
Shale, Sand	1075	2740	Pawnee	4655
Shale	2740	3570	Cherokee	4755
Shale, Lime	3570	4900		



# JOB SUMMARY

HALLIBURTON DIVISION Midcontinent  
 HALLIBURTON LOCATION Hays

BILLED ON TICKET NO. 176211

FIELD Klanos S.W. SEC. 16 TWP. 6S RNG. 37W 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 4900

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>W</u>	<u>10.5</u>	<u>4 1/2</u>	<u>0</u>	<u>4899</u>	
LINER						
TUBING						
OPEN HOLE			<u>7 1/8</u>	<u>4897</u>	<u>4900</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**ORIGINAL**

## JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>1-26</u>	DATE <u>1-26</u>	DATE <u>1-26</u>	DATE <u>1-26</u>
TIME <u>0649</u>	TIME <u>1230</u>	TIME <u>2130</u>	TIME <u>2330</u>

## TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <u>Super seal 2 1/2</u>	<u>1</u>	<u>HES</u>
GUIDE SHOE		
CENTRALIZERS <u>S-4 4 1/2 x 7 1/2</u>	<u>6</u>	<u>HES</u>
BOTTOM PLUG		
TOP PLUG <u>3-w latchdown 4 1/2</u>	<u>1</u>	<u>HES</u>
HEAD <u>Latchdown ball</u>	<u>1</u>	<u>HES</u>
PACKER <u>limit clamp</u>	<u>1</u>	<u>HES</u>
OTHER <u>1" Hexon seal</u>		
<u>Rotating Head</u>		

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION

**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. \_\_\_\_\_  
 PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
 OTHER \_\_\_\_\_  
 OTHER \_\_\_\_\_

DEPARTMENT Cement  
 DESCRIPTION OF JOB Common Production

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

CUSTOMER REPRESENTATIVE Gail Palumbo

HALLIBURTON OPERATOR Gail Palumbo COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU FT /SK.	MIXED LBS./GAL.
	<u>25</u>	<u>40160 Form A</u>	<u>A</u>	<u>B</u>	<u>10% oil</u>	<u>1.77</u>	<u>130</u>
	<u>160</u>	<u>EA 2</u>		<u>B</u>	<u>3% Calcium 15% Salt</u>	<u>1.28</u>	<u>153</u>
					<u>1/4" 15k D-AIR 1/2% HALAD-322</u>		

## PRESSURES IN PSI

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN. \_\_\_\_\_  
 HYDRAULIC HORSEPOWER \_\_\_\_\_

## SUMMARY

## VOLUMES

PRESLUSH. BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
 LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD. BBL.-GAL. \_\_\_\_\_  
 TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. 78  
 CEMENT SLURRY: BBL.-GAL. 46  
 TOTAL VOLUME: BBL.-GAL. 156

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_  
 FEET 37 REASON shoe set

## REMARKS

300 JOB LOG.  
Thank you  
Lead, not 3 cycle

FIELD OFFICE

CUSTOMER Natural Petroleum Resources  
 LEASE Hoyt  
 WELL NO. \_\_\_\_\_  
 JOB TYPE Prod log  
 DATE 1-26-97



HALLIBURTON ORIGINAL

ORIGINAL

DATE 1-26-97 PAGE NO. 7

JOB LOG HAL-2013-C

CUSTOMER National Pet. Resources	WELL NO. 1	LEASE Hoyt	JOB TYPE Prod. Csg	TICKET NO. 196211
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0640							Called out
	1140							On location w/ float equipment Rig circulating at TD
	1230							Start Laying down Drill Pipe PPAR-BC outloc
	1730							Start 4 1/2" 10 1/2" /ft casing Casing on bottom
	2030							Rig up to Circulate & Rotate Casing
	2130							Rig up to Pump Truck
	2150	4	20				200	Pump Salt Flush
		4	12				200	Pump mud flush
	2205		5					Plug Rat Hole w/ 155skts 40/60 por 10% gel
	2210	3 1/2					100	mix cement
								160skts EA-2 5% cakeal 75% salt 1/2% HALLAD-322 1 1/4" /sk D-ART
	2225		47				100	Cement mixed
								Wash out pump & line
	2227							Release Plug
	2227	6	67					Start displacement
	2238							Stop Rotating Casing
	2240	5	77				200	Plug down
	2242							Release Pressure - Plug Latched down
								Wash up Float Held
								Back up
	2330							Job Completed
								circulation Throught Job
								Thank you
								Alan, Mel & Lyle

RECEIVED  
 HALLIBURTON  
 1/26/97 11:50



# JOB SUMMARY

HALLIBURTON DIVISION MOC  
 HALLIBURTON LOCATION Hoya Ks

BILLED ON TICKET NO. 196161

## WELL DATA

FIELD \_\_\_\_\_ SEC. 16 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 374

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING			<u>5 1/2</u>	<u>KR</u>	<u>373</u>	
LINER						
TUBING						
OPEN HOLE				<u>373</u>	<u>374</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>1-17-97</u>	DATE <u>1-17-97</u>	DATE <u>1:17:27</u>	DATE <u>11:37</u>
TIME <u>15:00</u>	TIME <u>19:15</u>	TIME <u>20:03</u>	TIME <u>23:15</u>

## TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG <u>1 1/2" 11</u>	<u>1</u>	<u>Winters</u>
HEAD		
PACKER		
OTHER		

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION

## 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. \_\_\_\_\_  
 PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
 OTHER \_\_\_\_\_  
 OTHER \_\_\_\_\_

DEPARTMENT CMT  
 DESCRIPTION OF JOB 3 1/2" surface  
 JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.   
 CUSTOMER REPRESENTATIVE X Gary Clark  
 HALLIBURTON OPERATOR Allen Smith COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>265</u>	<u>40/60</u>	<u>Poz</u>	<u>B</u>	<u>1 1/2 601 3 1/2 cc</u>	<u>1.29</u>	<u>14.02</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. 23  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. 61  
 HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_  
 ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_  
 FEET 20' REASON Requested REMARKS See job log & chart  
Thank: Allen Smith

FIELD OFFICE

CUSTOMER \_\_\_\_\_  
 LEASE \_\_\_\_\_  
 Hoya \_\_\_\_\_  
 WELL NO. 41  
 JOB TYPE \_\_\_\_\_  
 DATE 1-17-97



JOB LOG HAL-2013-C

DATE	PAGE NO.
1-17-97	1
TICKET NO.	
196161	

CUSTOMER	WELL NO.	LEASE	JOB TYPE
NPR	#1	Hoyt	8 5/8 surface

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
1	1500							called out
	1915							on location w/ equip + cat
								265 sks 40/60 Poz 290 gal 290cc
								Discuss Safety setup + Plan Job.
								Rig Pulling D.P.
								out of Hole w/ A.P.
	1925							Start 8 5/8 csg. 20# weld collars
	1936							Pipe on bottom
	2200							circ w/ mud Hog
	2205							Hook up + cat well w/ 265 sks
	2221	5					400 <sup>th</sup>	start mix
			61				0 <sup>th</sup>	FIN mit
								Release Plug.
	2237	5					400 <sup>th</sup>	Start Pipe
			23				400 <sup>th</sup>	Plug Down - Shut IN
								Washup Equip.
								Finish Paper work
								Rack up Equip
	2315							Job complete
								cat cir to pit

ORIGINAL

thanks Allan, Craig, Lyle