



Operator Name TXO Production Corp. Lease Name HANSEN FOUNDATION Well # 1

Sec. 3 Twp. 10S Rge. 22W County Graham

East  
 West

WELL LOG

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  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No

Formation Description  
 Log  Sample

DST #1, 3710-50' (LKC "H"):  
 1st open, weak blow, died in 20".  
 2nd open, flushed tool, no blow.  
 IFP/30"=21-21 psig.  
 ISIP/60"=246 psig.  
 FFP/10"=0 psig.  
 FSIP/60"=256 psig.  
 Rec: 10' oil specked mud.

Name	Top	Bottom
Anhydrite	1827	+ 525
Heebner Shale	3551	-1199
Toronto	3572	-1220
Lansing	3586	-1234
Lansing "H"	3723	-1371
Lansing "J"	3763	-1411
BKC	3819	-1467
RTD	3850	
LTD	3848	

DST #2, 3742-3801' (LKC "I", "J" & "K")  
 1st open, strong blow off bottom of bucket in 1-1/2".  
 2nd open, 1" blow to bottom in 2", GTS in 40", TSTM.  
 IFP/30"=256-259 psig.  
 ISIP/60"=1047 psig.  
 FFP/45"=545-715 psig.  
 FSIP/90"=1016 psig.  
 Rec: 2220' total fluid. 551' GIP. 2100' CGO. 120' G&OCM (20% G, 40% O, 40% M).

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"	24#	287' KB.	Class A	175	2% gel, 3% CaCl <sub>2</sub>
Production	7-7/8"	4-1/2"	10.5#	3849'	2% KCL	40 bbls	
		DV Tool		1833'	Surefill	125	
					50/50 Poz	400	6% gel

PERFORATION RECORD

Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)

Shots Per Foot	Specify Footage of Each Interval Perforated	Depth
4 SPF	LKC "J" 3766-74' K.B.	3766-74' K.B.

TUBING RECORD Size 2-3/8" Set At 3787' KB. Packer at Liner Run  Yes  No

Date of First Production 2-23-87 Producing Method  Flowing  Pumping  Gas Lift  Other (explain)

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	90.18 B@bbls	N/A MCF	0 BW Bbls	CFPB	

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Sold  Used on Lease  
 Open Hole  Perforation  Other (Specify) 3766-74' KB.  
 Dually Completed  Commingled

15-065-22351-0000 FT

DATE OF JOB  
MM DD YY  
2 8 87

CONTRACT NO. 362303

DIRECT CORRESPONDENCE TO: P.O. BOX 4442 HOUSTON, TX 77210	TERMS: NET 30 DAYS FROM DATE OF CONTRACT	REMIT TO: P.O. BOX 200416 HOUSTON, TX 77216
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ORDER NO.

**CUSTOMER**

NAME: TXO Prod Corp NO: 09030270  
 ADDRESS: 155 N Market, Suite 1000  
 CITY: Wichita STATE: KS ZIP CODE: 67202  
 AUTHORIZED BY: Allen Dick

**DESCRIPTION OF WELL**

WELL NO. 1 OIL  GAS  NEW  OLD  STATE: KS CODES: 15-  
 LEASE NAME: Hansen Foundation COUNTY/PARISH: Graham 51  
 FIELD NAME: CITY:  
 OWNER: TXO MTA DISTRICT:  
 LEASE LINES: Labo Delg  
 SURVEY LINES: T-36 Biv - B-27 Jul - T-39 May  
 SURVEY:  
 DIRECTIONS TO LOCATION: 1510W 15 Palco  
 SECTION, TOWNSHIP, RANGE: 3 - 10 22  
 QUADRANT: NW NE NE

**JOB INFORMATION**

ARRIVED				RELEASED							
HH	MM	A	MM	DD	YY	HH	MM	A	MM	DD	YY
12	45	7	28	87	5	00	7	28	87		
JOB CODE: 0106		TYPE OF JOB: 43 2stage Prod		API OR IC NO.: 15-		AVG. PSI: 500		BUSINESS CODE:		INJ. RATE (BPM): 5	
				WORKING WELL DEPTH: 3850 FT.							

DIST. NO.: 3370 DISTRICT NAME: Han SLSMAN NO.:

CONTRACT CONDITIONS

This contract must be signed before the job is started or merchandise delivered. The undersigned is authorized to execute this contract as an Agent of the Customer. As such, the undersigned acknowledges that this contract for services, materials, products and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional substitute terms and/or conditions shall become a part of this contract without the written consent of an Officer of BJ-TITAN SERVICES COMPANY.

SIGNED: Allen Dick  
(WELL OWNER: OPERATOR, CONTRACTOR OR AGENT)

PRICE BOOK REF. NO.	SERVICES/MATERIAL	U/M	QUANTITY	PRICE	EXTENSION
01 10100320	Price of Job	ea	1	802 00	802 00
02 10100325	Depth below 3000'	ft.	855	09 76	95
03 10109005	Pump Truck Mileage	mi	25	1 50	37 50
04 10101501	Top Stage	ea	1	640 00	640 00
05 10410504	Common Cement	Q	325	5 00	1625 00
06 10415018	Poz	Q	200	2 00	400 00
07 10420145	Bel	sq	24.86	6 75	167 81
08 10428020	Gal Seal A-10	sq	7.05	13 50	95 18
09 10415048	Gal Chloride A-7	lb	188	23 00	20 24
10 10428048	KCL A-9	lb	280	20	56 00
11 10433050	Centralian STATE CORPORATION COMMISSION	ea	4	42 30	169 20
12 10433044	Basket MAR 12 1987	ea	1	108 00	108 00
13 10433036	Guide She CONSERVATION DIVISION	ea	1	93 60	93 60
14 10433013	Insert Wichita, Kansas	ea	1	144 90	144 90
15 10433081	Dr Tool Arrow	ea	1	1475 28	1475 28
16 10433068	Stop Ring	ea	1	14 40	14 40

SERVICE REPRESENTATIVE: Bull R. Han - DRK PR. BOOK: 07

The above material and service ordered by the Customer and received by: Allen Dick  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CONTRACT NO. 362303

DATE OF JOB: MM DD YY: 02 10 87 DISTRICT: Hays DIST. NO.: 3320 AUTHORIZED BY: Alton Dick  
 CUSTOMER: TXO Prod Corp

PRICE BOOK	PRICE BOOK REF. NO.	SERVICES / MATERIAL	U/M	QUANTITY	PRICE	PRICE EXTENSION
07	10880.095	Handling & Dumping	SK	525	92	483 00
	10940.115	Hauling 24.5 TONS	TM	62.5	65	416 50
		Sub Total				6885 56
		Discount 30%				2065 67
		Sub Total				4819 89

STATE CORPORATION COMMISSION

MAR 12 1987

SERVICE REPRESENTATIVE: *[Signature]* PR. BOOK: 07  
 THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]* (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

P.O. BOX 4442 HOUSTON, TX 77210

Date 2-5-87 District Hays Ticker No. 362303  
 Company TYO Prod Corp Rig Lobo  
 Lease Henson Foundation Well No. 1  
 County Gratham State K  
 Location 15 10W 15 Pelco Field \_\_\_\_\_

CASING DATA: PTA  Squeeze   
 Surface  Intermediate  Production  Liner   
 Size 4 1/2 Type 10 1/2 Weight 9 1/2 Collar \_\_\_\_\_

Casing Depths: Top \_\_\_\_\_ Bottom \_\_\_\_\_

Drill Pipe: Size 4 1/2 Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size 7 1/2 T.D. 3850 ft P.B. to \_\_\_\_\_ ft

CAPACITY FACTORS:  
 Casing Bbls/Lin ft .0162 Lin ft Bbl 60  
 Open Holes Bbls Lin ft \_\_\_\_\_ Lin ft Bbl \_\_\_\_\_  
 Drill Pipe Bbls Lin ft \_\_\_\_\_ Lin ft Bbl \_\_\_\_\_  
 Annulus Bbls Lin ft \_\_\_\_\_ Lin ft Bbl \_\_\_\_\_  
 Perforations From \_\_\_\_\_ ft to \_\_\_\_\_ ft Amt \_\_\_\_\_

CEMENT DATA:  
 Spacer Type: 40 bbl KCL 2%  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

LEAD: Pump Time 6 min hrs. Type \_\_\_\_\_  
Sulfur Excess \_\_\_\_\_  
 Amt. 125 Sks Yield 1.50 ft<sup>3</sup>/sk Density 14.3 PPG

TAJ Pump Time 16 min hrs. Type \_\_\_\_\_  
Top Stage 59/50 6% gel Excess \_\_\_\_\_  
 Amt. 400 Sks Yield 1.54 ft<sup>3</sup>/sk Density 13.6 PPG

WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls

Pump Trucks Used T-36 Joe  
 Bulk Equip T-39 Max B-27 Max

Float Equip. Manufacturer Baker - Arrow  
 Shoe. Type Cement Nose Depth \_\_\_\_\_  
 Float Type A-F-U Depth \_\_\_\_\_  
 Centralizers Quantity 4 Plugs Top \_\_\_\_\_ Btm \_\_\_\_\_  
 Stage Collars Arrow  
 Special Equip - Basket - Stop Rings  
 Disp. Fluid Type Water Amt \_\_\_\_\_ Bbls Weight 8.34 PPG  
 Mud Type Chemical Weight 9.3 PPG

COMPANY REPRESENTATIVE Allen Dick

CEMENTER Burr R. Jaka - Dick

TIME AM. PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls. Min	
						Bottom Stage Insert at 3841
						Mix & pump 40 bbls 2% KCL water Cement w/ 125 lb Sulfur Pump plug w/ 33 bbl water Pulley w/ 30 bbl mud Sand plug at 1000 PSI Float did hold. 3:30 PM
						Top Stage D.V. Tool at 1833 1000 PSI TO open
						Cement w/ 400 lb 59/50 1% gel Sand plug at 1500 PSI Pump plug w/ 30 bbls water Cement did Circulate plug down 5:00 PM