

January 04, 1995

OXY USA INC.

DRILLING REPORTING SYSTEM

WELL CHRONOLOGICAL

FOR

OXY USA INC, ENGLISH C 2; GRANT, KS



Well Chronological Report
ENGLISH C 2
Report Date: 12/17/1990 To 06/01/2004

12/17/1990 ENGLISH C 2

Daily Drilling

API#:	15-067-20375-00	<u>Measured</u>	<u>Vertical</u>		
DOL:	Depth Today:			AFE Cost:	Perfs: 2,887 - 2,952
DSS:	Amount Drilled:			Daily Cost:	Pres Ops:
CMIC:	H. JONES	PBTD:	3,073	CUM Cost:	
	Total Depth:				

Formations: COUNCIL GROVE 2887'-2952'

Remarks: MI RU GIBSON PU. POOH W/RODS & PUMP. RIH WITH 1-3/8"X
1-1/16"X12' PUMP ON 113 5/8" RODS AND 2 2', 3 6' AND 1
4'X8" PONIES. SPACED OUT & HUNG RODS ON BEAM. LEFT
PMP'G. RD MO GIBSON PU.

08/19/1991 ENGLISH C 2

Daily Drilling

API#:	15-067-20375-00	<u>Measured</u>	<u>Vertical</u>		
DOL:	Depth Today:			AFE Cost:	Perfs: 2,887 - 2,952
DSS:	Amount Drilled:			Daily Cost:	Pres Ops:
CMIC:	H. JONES	PBTD:	3,073	CUM Cost:	
	Total Depth:				

Formations: COUNCIL GROVE 2887'-2952'

Remarks: MI RU GIBSON PU. STACKED OUT RODS. POOH W/BAD JT 1-1/2"
TBG (TOP JT). REPACKED WELLHEAD. FISHED RODS. SPACED OUT.
HUNG RODS BACK ON BEAM. LEFT WELL PMP'G. PMP'D UP IN 3
HRS. RD MO GIBSON PU.

12/13/1994 ENGLISH C 2

Daily Drilling

API#:	15-067-20375-00	<u>Measured</u>	<u>Vertical</u>		
DOL:	Depth Today:			AFE Cost:	Perfs: 2,887 - 2,952
DSS:	Amount Drilled:			Daily Cost:	Pres Ops: PRODUCING
CMIC:	M.FINK	PBTD:	3,073	CUM Cost:	
	Total Depth:				

Formations: C.G.:2887-2952 PRIOR PROD: 49 MCFD

Remarks: 11-07-94: MIRU GIBSON RIG# 108. COULD NOT UNSEAT PUMP.
STRIPPED OUT OF HOLE WITH TBG & RODS. SISDFN.
11-08-94: FINISHED STRIPPING OUT W/ TBG & RODS. REPLACED
MA, SN & 1 JT 1.900" TBG & TIH W/ TOTAL OF 93 JTS
1.900" TBG. SN @ 2957. PU REBUILT 1.375" X 1.250" X
12' BHP W/ 4' GA & TIH ON 116 .675" RODS & 2 8' & 1 6'
PONIES. SEATED PUMP & LOADED TBG, HELD OK. PWOP. RDMO
GIBSON.
11-10-94: WELL DID NOT PUMP UP. MIRU GIBSON RIG# 85.
UNSEATED PUMP & TOO H W/ PUMP & RODS. FLUSHED TBG W/ 20
BBLs PRODUCED WTR. PU REBUILT 1.375" X 1.250" X 12'
BHP W/ P.A. PLUNGER & TIH ON SAME ROD STRING. SEATED
PUMP & CK'D ACTION. PWOP. RDMO GIBSON.
12-12-94: JOB DID NOT IMPROVE ORGINAL PROD.
JOB COMPLETE (PUMP CHANGE)*****



Well Chronological Report
ENGLISH C 2
Report Date: 12/17/1990 To 06/01/2004

12/24/1996 **ENGLISH C 2**

Cleanout and Acidize

API#: 15-067-20375-00

CMIC: M.FINK



First Report



Last Report

ABE Code:

Focus Code:

Job#:

Pay Key:

Rig ID:

Billable Hours:

Contract

Material

Failure Cost:

Non EFS Cost:

CUM Cost:

Remarks: 12/09/96: MIRU GIBSON. PRESSURED TBG TO 300 PSIG & SI. PUMPED 1000 GAL OF 5% SULFAMIC & 5% HYDROACETIC ACID BLEND W/ 1.5 GAL NUETR-CLA CW DN CSG ANNULUS. SD F/ 45 MIN. FLUSHED W/ 80 BBLs FRESH WTR W/ 5 GAL NUETRA-CLA CW. RDMO GIBSON. LEFT WELL SD & SI F/ 24 HRS.
12/23/96: PRIOR PROD 19 MCFD, CURRENT PROD 67 MCFD. WTR PROD 1.5 BWPd.
JOB COMPLETE. *****

06/19/1997 **ENGLISH C 2**

Well Stimulation

API#: 15-067-20375-00

CMIC: HAROLD JONES



First Report



Last Report

ABE Code:

Focus Code:

Job#:

Pay Key:

Rig ID:

Billable Hours:

Contract

Material

Failure Cost:

Non EFS Cost:

CUM Cost:

Remarks: 6-6-97 MINU GIBSON AND PMP 60 BBLs 2% KCLW W/BACTERIACIDE DN BACKSIDE. PRIOR PROD=52 MCFD, CURRENT PROD (6-19-97)=69 MCFD. INCREASE OF 17 MCFD. JOB COMPLETE*****

09/24/1998 **ENGLISH C 2**

Well Stimulation

API#: 15-067-20375-00

CMIC: GREGG FILLPOT



First Report



Last Report

ABE Code:

Focus Code:

Job#:

Pay Key:

Rig ID:

Billable Hours:

Contract

Material

Failure Cost:

Non EFS Cost:

CUM Cost:

Remarks: 08/21/98: MIRU WELLTECH & PMP 2 GALS OF NALCO EC 9041A PLUS BIOCIDES MIXED W/60 BBLs 2% KCL WATER. LEFT WELL PMPING. WORK INCREASED PROD. FROM 28 MCF TO 60 MCF.
JOB COMPLETE*****

06/30/1999 **ENGLISH C 2**

Pump Change

API#: 15-067-20375-00

CMIC: HAROLD JONES



First Report



Last Report

ABE Code:

Focus Code:

Job#:

Pay Key:

Rig ID:

Billable Hours:

Contract

Material

Failure Cost:

Non EFS Cost:

CUM Cost:

Remarks: 6-7-99 MIRU BORDERLINE AND POOH W/PMP. RIH W/1 3/8"X1 1/4"X12' BHD PMP ON 116-5/8" RODS AND 3-6' SUBS. SPACED OUT, HUNG ON, AND PRESS TBG TO 300 PSIG. HELD OK. RDMO BORDERLINE. WELL WAS RESTORED TO NORMAL PROD. JOB COMPLETE*****



Well Chronological Report
ENGLISH C 2
Report Date: 12/17/1990 To 06/01/2004

07/01/1999 **ENGLISH C 2**

Well Stimulation

API#: 15-067-20375-00

CMIC: HAROLD JONES

☒ First Report

☒ Last Report

ABE Code:

Focus Code:

Job#:

Pay Key:

Rig ID:

Billable Hours:

Contract

Material

Failure Cost:

Non EFS Cost:

CUM Cost:

Remarks: 5-19-99 MINU KEY ENERGY AND DMP 60 BBLS 2% KCLW W/8 GAL RN-211 CHAMPION CHEMICAL DN BACKSIDE. SI WELL AND SD BPU FOR 24 HRS. PRIOR PROD=44 MCFD, CURRENT PROD=56 MCFD.

04/01/2000 **ENGLISH C 2**

Well Stimulation

API#: 15-067-20375-00

CMIC: HAROLD JONES

☒ First Report

☒ Last Report

ABE Code:

Focus Code:

Job#:

Pay Key:

Rig ID:

Billable Hours:

Contract

Material

Failure Cost:

Non EFS Cost:

CUM Cost:

Remarks: 2-17-00 MINU LATHEM AND PMP 60 BBLS 2% KCLW W/9 GAL RN-211 CHAMPION CHEMICAL AND BIOCIDEN THE BACKSIDE. SI BPU WHILE FL. WAS PMPD AND RESTARTED AFTER DUMP. PRIOR PROD=39 MCFD CURRENT PROD=39 MCFD

08/15/2000 **ENGLISH C 2**

Rod Part

API#: 15-067-20375-00

CMIC: HAROLD JONES

☒ First Report

☒ Last Report

ABE Code:

Focus Code:

Job#:

Pay Key:

Rig ID:

Billable Hours:

Contract

Material

Failure Cost:

Non EFS Cost:

CUM Cost:

Remarks: 7-7-00 MIRU BORDERLINE AND POOH W/38 RODS, FD BOX PARTED. COULD NOT FISH BOX IN 1.5" TBG, BLEW WELL DN AND POOH W/TBG TO PART. UNSEAT PMP AND POOH. RIH W/TBG AND PK OFF WELL HD. RIH W/REBUILT 1 3/8"X1 1/4"X12 BHD PMP ON 116-5/8" RODSAND 3-6 SUBS. SPACED OUT, HUNG ON, LOAD TBG, AND RDMO BORDERLINE. WELL WAS RESTORED TO NORMAL PROD. JOB COMPLETE*****

02/14/2001 **ENGLISH C 2**

Well Stimulation

API#: 15-067-20375-00

CMIC: HAROLD JONES

☒ First Report

☒ Last Report

ABE Code:

Focus Code:

Job#:

Pay Key:

Rig ID:

Billable Hours:

Contract

Material

Failure Cost:

Non EFS Cost:

CUM Cost:

Remarks: 1-11-01 MINU LATHEM AND DMP 60 BBLS 2% KCLW W/9 GAL CHAMPION RN-211 CHEMICAL AND BIOCIDEN THE BK SIDE. LEFT WELL PMPING. PRIOR PROD=29 MCFD. CURRENT PROD=46 MCFD.



Well Chronological Report
ENGLISH C 2
Report Date: 12/17/1990 To 06/01/2004

04/23/2001 **ENGLISH C 2**

Well Stimulation

API#: 15-067-20375-00

CMIC: HAROLD JONES



First Report



Last Report

ABE Code:

Focus Code:

Job#:

Pay Key:

Rig ID:

Billable Hours:

Contract

Material

Failure Cost:

Non EFS Cost:

CUM Cost:

Remarks: 4-3-01 MINU LATHEM AND DMP 60 BBLs 2% KCLW W/9 GAL CHAMPION RN-211 CHEMICAL AND BIOCIDe DN THE BK SIDE. LEFT WELL PMPING. PRIOR PROD=31 MCFD CURRENT PROD=53 MCFD.

01/30/2002 **ENGLISH C 2**

Well Stimulation

API#: 15-067-20375-00

CMIC: HAROLD JONES



First Report



Last Report

ABE Code: 12031

Focus Code:

Job#: 26037

Pay Key:

Rig ID:

Billable Hours:

Contract

Material

Failure Cost:

Non EFS Cost:

CUM Cost:

Remarks: 6-19-01 MINU LATHEM AND DMP 60 BBLs 2% KCLW W/9 GAL CHAMPION RN-211 CHEMICAL AND BIOCIDe DN THE BK SIDE. LEFT WELL PMPING. PRIOR PROD=30 MCFD. CURRENT PROD=55 MCFD. TT COST=\$310

11-20-01 MINU LATHEM AND DMP 60 BBLs 2% KCLW W/5 GAL UNICHEM 447 CHEMICAL AND BIOCIDe DN THE BK SIDE. LEFT WELL PMPING. PRIOR PROD=28 MCFD. CURRENT PROD=54 MCFD. TT COST=\$240

05/04/2002 **ENGLISH C 2**

Well Stimulation

API#: 15-067-20375-00

CMIC: HAROLD JONES



First Report



Last Report

ABE Code: 12031

Focus Code:

Job#: 42313

Pay Key:

Rig ID:

Billable Hours:

Contract

Material

Failure Cost:

Non EFS Cost:

CUM Cost:

Remarks: 2-21-02 MINU LATHEM AND DMP 60 BBLs 2% KCLW W/BIOCIDe AND 9 GAL OF CHAMPION RN-211 CHEMICAL DN BK SIDE. LEFT WELL PMPING. PRIOR PROD=36 MCFD. CURRENT PROD=50 MCFD. COST=\$300



Well Chronological Report
ENGLISH C 2
Report Date: 12/17/1990 To 06/01/2004

11/14/2002 **ENGLISH C 2**

Tubing Leak Repair

API#: 15-067-20375-00

CMIC: HAROLD JONES

☒ First Report

☒ Last Report

ABE Code: 12022

Focus Code:

Job#: 66467

Pay Key:

Rig ID:

Billable Hours:

Contract

Material

Failure Cost:

Non EFS Cost:

CUM Cost:

Remarks: 11-4-02 MIRU BORDERLINE AND POOH W/RODS AND 1.5" TBG. LD TBG. RIH W/SCRATCHER AND WORK THRU PERFS. SISDFN.

11-5-02 RIH W/SND PMP AND REC'D 2 GAL SND/SCALE/IRON SULFIDE. RIH W/CSG SWAB, IFL @ 2800'. REC'D 10 GAL BLACK WTR. LD SWAB AND RIH W/31'MA, SN, AND 90 JTS 2.375" A GR, EUE TBG. SN @ 2970'. PK OFF WELL HD AND RIH W/6' GA, 2"X1.25"X12' THD PMP ON 117-5/8" RODS AND 16' ROD SUBS. SPACED OUT, HUNG ON, LOAD TBG, AND RDMO BORDERLINE. JOB COMPLETE*****

EST COST=\$12,000

08/04/2003 **ENGLISH C 2**

Well Stimulation

API#: 15-067-20375-00

CMIC: HAROLD JONES

☒ First Report

☒ Last Report

ABE Code: 12031

Focus Code:

Job#: 79681

Pay Key:

Rig ID:

Billable Hours:

Contract

Material

Failure Cost:

Non EFS Cost:

CUM Cost:

Remarks: 7-23-03 WTR DMP 60 BBLS 2% KCLW W/BIOCIDE AND 5 GAL UNICHEM TECHNI-WET 447 CHEM. LEFT WELL PMPING. PRIOR PROD: 29 MCFD. CURRENT: 38 MCFD. COST=\$230

OKLAHOMA CITY DISTRICT
-----OTHER WELLS OF INTEREST

OXY USA INC, ENGLISH C 2
GRANT, KS; WSN: 4531
FIELD: PANOMA;
PTD 3,090; OBJ FORM COUNCIL GROVE;
ELEV RKB 3,096; AFE DH 0; CWI 100.000; CNI 87.500;

12/17/90 FORM: COUNCIL GROVE 2887'-2952';
PBTB 3,073; PERFS(MD) 2,887 - 2,952;
CASING 4.5; @ 3,089;
ACTIVITY SUMMARY:
MI RU GIBSON PU. POOH W/RODS & PUMP. RIH WITH 1-3/8"X
1-1/16"X12' PUMP ON 113 5/8" RODS AND 2 2', 3 6' AND 1
4'X8" PONIES. SPACED OUT & HUNG RODS ON BEAM. LEFT
PMP'G. RD MO GIBSON PU.

CMIC H. JONES;

08/19/91 FORM: COUNCIL GROVE 2887'-2952';
PBTB 3,073; PERFS(MD) 2,887 - 2,952;
CASING 4.5; @ 3,089;
ACTIVITY SUMMARY:
MI RU GIBSON PU. STACKED OUT RODS. POOH W/BAD JT 1-1/2"
TBG (TOP JT). REPACKED WELLHEAD. FISHED RODS. SPACED OUT.
HUNG RODS BACK ON BEAM. LEFT WELL PMP'G. PMP'D UP IN 3
HRS. RD MO GIBSON PU.

CMIC H. JONES;

12/13/94 PR OPNS: PRODUCING; FORM: C.G.:2887-2952; PRIOR PROD: 49 MCFD;
PBTB 3,073; PERFS(MD) 2,887 - 2,952;
CASING 4.5; @ 3,089;

OXY USA INC, ENGLISH C 2
GRANT, KS; WSN: 4531
FIELD: PANOMA;
PTD 3,090; OBJ FORM COUNCIL GROVE;
ELEV RKB 3,096; AFE DH 0; CWI 100.000; CNI 87.500;

ACTIVITY SUMMARY:

11-07-94: MIRU GIBSON RIG# 108. COULD NOT UNSEAT PUMP.
STRIPPED OUT OF HOLE WITH TBG & RODS. SISDFN.

11-08-94: FINISHED STRIPPING OUT W/ TBG & RODS. REPLACED
MA, SN & 1 JT 1.900" TBG & TIH W/ TOTAL OF 93 JTS
1.900" TBG. SN @ 2957. PU REBUILT 1.375" X 1.250" X
12' BHP W/ 4' GA & TIH ON 116 .675" RODS & 2 8' & 1 6'
PONIES. SEATED PUMP & LOADED TBG, HELD OK. PWOP. RDMO
GIBSON.

11-10-94: WELL DID NOT PUMP UP. MIRU GIBSON RIG# 85.
UNSEATED PUMP & TOOH W/ PUMP & RODS. FLUSHED TBG W/ 20
BBLs PRODUCED WTR. PU REBUILT 1.375" X 1.250" X 12'
BHP W/ P.A. PLUNGER & TIH ON SAME ROD STRING. SEATED
PUMP & CK'D ACTION. PWOP. RDMO GIBSON.

12-12-94: JOB DID NOT IMPROVE ORIGINAL PROD.
JOB COMPLETE (PUMP CHANGE)*****

CMIC M.FINK; DAILY COST \$4,423; CUM. COST \$4,423;

January 04, 1995

COMPLETION WELL REPORT
OKLA CITY DISTRICT

PAGE: 1
COMP76ON.REP

FOR: OXY USA INC, ENGLISH C 2; GRANT, KS

WELL ID: 4531 HAD COMPLETION REPORT ON: 12/17/90
PRINT DATE: 12/17/90

DISTRICT: 1300 OKLA CITY

PROD FOREMAN: 1351

CNTY: GRANT

STATE: KS

WELL STATUS: 02 Gas

COMPANY CODE:

WELL TYPE : 517

Other Wells of Interest
Workover

FIELD: PANOMA

API # 15-067-20375

AFE #:

BUDGET APPR #:

COST : DRY :

COST : PROD :

CWI : 100.0000000

CNI : 87.5000000

ELEVATION: GROUND: 3,088

KELLY BUSHING: 3,096

WELL LOCATION:

2340 FSL 2490 FEL OF SE/4 SEC 20-27S-35W

S-T-R: 20 - 27 S - 35 W

BOTTOM HOLE LOCATION:

RIG REL DATE : 03 / 28 / 76

RIG REL TIME : 18 : 00

COMP DATE : 12 / 17 / 90

SPUD DATE : 03 / 24 / 76

(OFFICIAL FINAL COMPLETION REPORT SUBMITTED ON:)

WELLHEAD DATE: 12 / 17 / 90

TD (MD) : 3,090 TD (TVD):

PBTD MD 3,073

PROD INTV 2,887 - 2,952

COMP PERF 2,887 - 2,892 , 2,902 - 2,915 ,
2,918 - 2,930 , 2,942 - 2,952

COMP EST COST (\$)

COMP RESERVOIRS COUNCIL GROVE

IP UPPER BOPD 85 MCFPD

3 BOPD GOR

IP LOWER BOPD MCFPD

BOPD GOR

DAILY ALLOWABLE: GAS WELL

MCFPD OIL WELL

BOPD

COMPLETION REMARKS

CITIES SERVICE OIL COMPANY

Daily Well History - Interim Report

INSTRUCTIONS: Interim Reports shall be completed and submitted with the Final Report for the well. Interim Reports are required for all drilling wells and so be used for recording daily work on significant workovers. The description of work performed on Interim Reports should be a complete report of each Drilling Activity. On significant wells the Tulsa Office may request Interim Reports as a sheet is filled out.

LEASE / UNIT NAME AND WELL NO. ENGLISH "C" #2		REGION MID CONT South
COUNTY-PARISH-STATE-PROVINCE Grant County, Kansas	FIELD OR PROSPECT NAME	AFE NUMBER
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
8/8/78	PBTD 3073', 4½ csg @ 3089'. Council Grove 2878'-2952' (5 zones). 1½ tbg at 2981'. SN @ 2953', Kleager PU on well. CAOF 1204 MCFFD. Prep'g to examine well for damage. Well hit by lightening storm approx. 8:30 p.m. 8/7/78. Well head on fire w/good vol of gas. Called out Haskell County and Grant County, fire depts. Put out fire w/foam. Sprayed equip and dry chemical equip by Dowell. Examined well head and found line off between well head and Kleager unit vol tank. Closed valve and brought under control. SI till morning.	
8/9/78	PBTD 3073', 4½ csg @ 3089'. Council Grove 2878'-2952' (5 zones). 1½ tbg @ 2981'. SN @ 2953'. SD, wtg on well completion unit to change out well head and install beam pmp'g equip. Will drop from report until completion unit is available.	
8-22-78	MI & RU Farri's Pulling Unit. Lay down burned up Kleager Pumping Unit Ser # 21026 4½' stroke. Pump was stuck - charge pump rigged down pumping unit.	
8-24-78	Set Churchill 40D S# 182907 w/ Arrow C66 gas engine. Moved salt wtr tank.	
8-25-78	Connect wtr tank & pumping unit up. Started pumping unit. 95 pm 48" stroke csg pressure 0#. 10 bbls wtr/24 hrs.	

CITIES SERVICE OIL COMPANY

Daily Well History - Final Report

INSTRUCTIONS: Submit a Final Report on or before the first Wednesday after filing regulatory agency completion report or a well is P & A. A Final Report should be submitted also when a well is TA or drilling operations are suspended for an indefinite or appreciable length of time even though a reg. agency completion report is not filed. When operations are resumed on wells reported as suspended or TA, a second Final Report must be submitted as if the well had not been suspended or TA. On workovers when a regulatory agency completion report is not required upon completion, report completion and representative test data in spaces provided. Description of work performed on workovers and the plugging of wells other than drilling wells may be summarized giving inclusive dates on the Final Report form in which case Initial and Interim Reports are not required. Each Final Report for drilling wells and significant workovers must be accompanied by appropriate Interim Reports. Complete only applicable data.

LEASE / UNIT NAME AND WELL NO. ENGLISH C #2		OPERATOR CSOC		REGION Mid-Cont (South)
COUNTY-PARISH-STATE-PROVINCE Grant County, Kansas	FIELD OR PROSPECT NAME Panoma Field	ESTIMATED 100% D & E COST AT COMP. \$ 123,345		AFE NUMBER 7-1577574
PROJECT NAME Drill and Equip.		RIG RELEASE DATE - HOUR 3/28/76 - 6:00 pm	CLASS OF WELL OIL ☐ GAS ☒ SERV ☐	
				COMPANY GROSS WI 100%

DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED
	<i>Directions to English C #2</i> <i>300' TNL & 150' FWL SE 1/4 Section 20-27S-35W, Grant Co., KS</i> <i>From Ulysses, KS go 9 miles east on Hwy 160,</i> <i>8 miles north to paved road, then 1 1/2 mile</i> <i>east on paved road and 1/2 mile north to</i> <i>Location.</i>

TD-MEASURED 3090'	PBTD 3073'	TVD -----
-----------------------------	----------------------	---------------------

POTENTIAL TEST DATA											
DATE	RESERVOIR	PRODUCING INTERVAL	TBG PR	CSG PR	CHK. SIZE	BOPD	CAOF MCF/D	% WTR.	GOR	CORR. GR.	TEST TIME
6-10-76	Council Grove	2887-2952	--	171	---	--	1204	--	---	--	72

PRODUCTION ESTIMATE (COMPLETE EVEN IF WELL IS SHUT IN)					
RESERVOIR	BOPD	MCF/D	BWPD	DATE ON PRODUCTION ESTIMATED (OR ACTUAL)	DATE THE PERMANENT WELL HEAD WAS INSTALLED
Council Grove	---	250	---	Two Months	5-7-76

SUBMIT ONE COMPLETED COPY TO E & P GENERAL OFFICE - TULSA

CITIES SERVICE OIL COMPANY

Daily Well History - Interim Rep

INSTRUCTIONS: Interim Reports shall be completed and submitted with the Final Report for the well. Interim Reports are required for all drilling wells may also be used for recording daily work on significant workovers. The description of work performed on Interim Reports should be a complete report of e days Drilling Activity. On significant wells the Tulsa Office may request Interim Reports as a sheet is filled out.

LEASE / UNIT NAME AND WELL NO.		REGION
ENGLISH C #2		Mid-Cont (South)
COUNTY - PARISH - STATE - PROVINCE	FIELD OR PROSPECT NAME	AFE NUMBER
Grant County, Kansas	Panoma Field	Ø-1577574
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
6/2/76	PBTB 3073', Council Grove 2887-2952' (5 sets). Pmp'g to C.U. after lowering tbq. Lowered tbq 2 jts (70') & set @ 2981'. SN @ 2953'. Ran pump w/3 extra rods. Reset Klaeger P.U. M.I. air compressor. 1141 BLW to rec.	
6/3/76	PBTB 3073', Council Grove 2887-2952' (5 sets). Pmp'g to C.U. after lowering tbq. Pmp'd 0 BLW in 3 hrs. Down 21 hrs w/air compressor trouble. 1141 BLW to rec.	
6/4/76	PBTB 3073', Council Grove 2887-2952' (5 sets). Pmp'g to C.U. after frac. Pmp'd 10 BLW in 5 hrs. SICP 0 psi. Air compressor down 16 hrs. 1131 BLW to rec. TEC \$123,345. TCTD \$105,055.	
6/5/76	PBTB 3073', Council Grove 2887-2952' (5 sets). Pmp'g to C.U. after frac. Pmp'd 48 BLW in 24 hrs. SICP 170 psi. Switched pump to casinghead gas & M.O. compressor. 1083 BLW to rec.	
6/6/76	PBTB 3073', Council Grove 2887-2952' (5 sets). Pmp'g to C.U. after frac. Pmp'd 24 BLW in 24 hrs. SICP 180 psi. 1059 BLW to rec.	
6/7/76	PBTB 3073', Council Grove 2887-2952' (5 sets). Pmp'g to C.U. after frac. Pmp'd 6 BLW in 24 hrs. SICP 180 psi. 1053 BLW to rec.	
6/8/76	PBTB 3073', Council Grove 2887-2952' (5 sets). SI for 4-point test. Pmp'd 6 BLW in 24 hrs. SICP 180 psi. 1047 BLW to rec.	
6/9/76	PBTB 3073', Council Grove 2887-2952' (5 sets). SI for 4-point test. Pmp'd 4 BLW in 24 hrs. SICP 180 psi. 1043 BLW to rec.	
6/10/76	PBTB 3073', Council Grove 2887-2952' (5 sets). W.O. 4-pt calculations. Ran 4-pt test. Pmp'd 6 BLW in 24 hrs. SICP 171.1 psi. 1037 BLW to rec. Shot fluid level & had no fluid above SN.	
6/11/76	PBTB 3073', Council Grove 2887-2952' (5 sets). SI. Well Complete. Results of 4-pt test: 72 hr SIP 171.1 psig, CAOF 1204 MCF, est allowable 250 MCFPD. 1037 BLW to rec. Pmp'd 0 BLW during 4-pt test. TEC \$123,345. TCTD \$105,055. <u>Final Report.</u>	

CITIES SERVICE OIL COMPANY

Daily Well History - Interim Report

INSTRUCTIONS: Interim Reports shall be completed and submitted with the Final Report for the well. Interim Reports are required for all drilling wells may also be used for recording daily work on significant workovers. The description of work performed on Interim Reports should be a complete report of days Drilling Activity. On significant wells the Tulsa Office may request Interim Reports as a sheet is filled out.

LEASE / UNIT NAME AND WELL NO.		REGION
ENGLISH C #2		Mid-Cont (South)
COUNTY - PARISH - STATE - PROVINCE	FIELD OR PROSPECT NAME	AFE NUMBER
Grant County, Kansas	Panoma Field	9-1577574
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
5/19/76	PBTB 3073', Council Grove 2887-2952' (5 sets). SI for 4-point test.	
5/20/76	Pmp'd 13 BLW in 24 hrs. SICP 200 psi. 1192 BLW to rec. PBTB 3073', Council Grove 2887-2952' (5 sets). SI for 4-point test.	
5/21/76	Pmp'd 10 BLW in 24 hrs. SICP 160 psi. 1172 BLW to rec. PBTB 3073', Council Grove 2887-2952' (5 sets). SI for 4-point test.	
5/22/76	Pmp'd 10 BLW in 24 hrs. SICP 160 psi. 1162 BLW to rec. TEC \$123,345. TCTD \$104,250. PBTB 3073', Council Grove 2887-2952' (5 sets). SI for 4-point test.	
5/23/76	Pmp'd 4 BLW in 24 hrs. SICP 160 psi. 1158 BLW to rec. PBTB 3073', Council Grove 2887-2952' (5 sets). SI for 4-point test.	
5/24/76	Pmp'd 3 BLW in 24 hrs. SICP 160 psi. 1155 BLW to rec. PBTB 3073', Council Grove 2887-2952' (5 sets). SI for 4-point test.	
5/25/76	Pmp'd 4 BLW in 24 hrs. SICP 160 psi. 1151 BLW to rec. PBTB 3073', Council Grove 2887-2952' (5 sets). W.O. 4-point calculations.	
5/26/76	Ran 4-point test. Pmp'd 4 BLW in 24 hrs. SICP 169.5 psi. 1147 BLW to rec. Shot FL @ 2883'. No fluid above SN. PBTB 3073', Council Grove 2887-2952' (5 sets). SI for 4-point test.	
5/27/76	Previous 4-point test would not calculate. Pmp'd 2 BLW in 24 hrs. SICP 183 psi. 1145 BLW to recover. PBTB 3073', Council Grove 2887-2952' (5 sets). SI for 4-point test.	
5/28/76	Pmp'd 2 BLW in 24 hrs. SICP 183 psi. 1143 BLW to rec. PBTB 3073', Council Grove 2887-2952' (5 sets). SI for 4-point test.	
5/29/76	Pmp'd 2 BLW in 24 hrs. SICP 183 psi. 1141 BLW to rec. TEC \$123,345. TCTD \$104,250. PBTB 3073', Council Grove 2887-2952' (5 sets). SI for 4-point test.	
5/30/76	Attempted to run 4-point test. Pmp'd 0 BLW in 24 hrs. 1141 BLW to rec. PBTB 3073', Council Grove 2887-2952' (5 sets). SI for 4-point test.	
5/31/76	SD pmp'g unit. SICP 0 psi.	
6/1/76	SD for Sunday PBTB 3073', Council Grove 2887-2952' (5 sets). M.I. pulling unit. Will lower tbq & rods. SD for holiday. 1141 BLW to rec.	

CITIES SERVICE OIL COMPANY

Daily Well History - Interim Rep

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LEASE / UNIT NAME AND WELL NO.		REGION
ENGLISH C #2		Mid-Cont (South)
COUNTY-PARISH-STATE-PROVINCE		FIELD OR PROSPECT NAME
Grant County, Kansas		Panoma Field
		AFE NUMBER
		7-1577574
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
5/6/76	PBSD 3073', Council Grove 2887-2952' (5 sets). Swb'g & flw'g to C.U. after frac. Swb'd 6 BLW in 1 hr. Swb'd & flw'd 44 BLW in 13 hrs. Gas Vol 400 to 1000 MCFPD. 1412 BLW to rec.	
5/7/76	PBSD 3073', Council Grove 2887-2952' (5 sets). Prep to run tbg & rods. Swb'd & flw'd 25 BLW in 6 hrs. Gas Vol 450-1200 MCFPD. 1387 BLW to rec. TEC \$123,345. TCTD \$84,428.	
5/8/76	PBSD 3073', Council Grove 2887-2952' (5 sets). W.O. air compressor. Ran 91 jts 1½" 2.9# 10R, J-55 tbg (2878'), Mud anchor, 33' SN @ 2883' KB. Ran 113-5/8" Jones 8 rods w/slim hole couplings, 2-2' & 3-6' & 1-4' pony rods. Pump 1-3/8" x 1-1/16. Installed 4½' Klaeger unit. POP. Released completion unit.	
5/9/76	PBSD 3073', Council Grove 2887-2952' (5 sets). W.O. air compressor.	
5/10/76	PBSD 3073', Council Grove 2887-2952' (5 sets). W.O. air compressor.	
5/11/76	PBSD 3073', Council Grove 2887-2952' (5 sets). Pmp'g to C.U. after frac. M.I. air compressor. Started pmp'g unit @ 2:30 p.m. 5/10/76.	
5/12/76	12 x 54" SPM. Pmp'd 25 BLW in 17 hrs. CP 30 psi. 1362 BLW to rec. PBSD 3073', Council Grove 2887-2952' (5 sets). Pmp'g to C.U. after frac. Pmp'd 20 BLW in 15 hrs. Down 9 hrs w/air compressor trouble. CP 30 psi. 1342 BLW to rec.	
5/13/76	PBSD 3073', Council Grove 2887-2952' (5 sets). Pmp'g to C.U. after frac. Pmp'd 38 BLW in 24 hrs. SICP 130 psi. M.O. air compressor. 1304 BLW to rec.	
5/14/76	PBSD 3073', Council Grove 2887-2952' (5 sets). Pmp'g to C.U. after frac. Pmp'd 42 BLW in 24 hrs. SICP 140 psi. 1262 BLW to rec. TEC \$123,345. TCTD \$104,250.	
5/15/76	PBSD 3073', Council Grove 2887-2952' (5 sets). Pmp'g to C.U. after frac. Pmp'd 18 BLW in 24 hrs. 11 x 54" SPM. SICP 160 psi. 1244 BLW to rec.	
5/16/76	PBSD 3073', Council Grove 2887-2952' (5 sets). Pmp'g to C.U. after frac. Pmp'd 15 BLW in 24 hrs. SICP 200 psi. 1229 BLW to rec.	
5/17/76	PBSD 3073', Council Grove 2887-2952' (5 sets). Pmp'g to C.U. after frac. Pmp'd 15 BLW in 24 hrs. SICP 200 psi. 1214 BLW to rec.	
5/18/76	PBSD 3073', Council Grove 2887-2952' (5 sets). SI for 4-point test. Pmp'd 9 BLW in 15 hrs. SICP 200 psi. 1205 BLW to rec.	

CITIES SERVICE OIL COMPANY

Daily Well History - Interim Rep

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LEASE / UNIT NAME AND WELL NO.		REGION
ENGLISH C #2		Mid-Cont (South)
COUNTY - PARISH - STATE - PROVINCE	FIELD OR PROSPECT NAME	AFE NUMBER
Grant County, Kansas	Panoma Field	Ø-1577574
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
4/25/76	PBSD 3073', Council Grove 2887-2952' (5 sets). SD for Sunday. Western fraced Council Grove 2887-2952' (5 sets) down 4½" casing w/2500 gals 15% Spearhead acid, 6000 gals 1% KCLW pad containing 12 gals FR-14, 6 gals FS-F, 3 gals Adocide followed by 85,000 gals 1% KCLW & 170,000# 20/40 Sd containing 170 gals FR-14, 85 gals FS-F & 42 gals adocide. Flushed w/48 bbls 1% KCLW containing 6 gals FR-14. Max press 2150 psi to 1950 psi to 50 psi ISDP to a vac in 1/2 min. AIR 100 bpm. TL&T 2280 bbls. SI 4 hrs. Chk'd Sd @ 3048'. Swb'd 133 BLW in 4 hrs. 2147 BLW to rec. SDFN.	
4/26/76	PBSD 3073', Council Grove 2887-2952' (5 sets). Swb'g to C.U. after frac. SD for Sunday.	
4/27/76	PBSD 3073', Council Grove 2887-2952' (5 sets). Flw'g to C.U. after frac. Swb'd 155 BLW in 7 hrs & well K.O. Flw'd 104 BLW in 13 hrs. Gas Vol TWTM. 1888 BLW to rec.	
4/28/76	PBSD 3073', Council Grove 2887-2952' (5 sets). Swb'g to C.U. after frac. Flw'd 10 BLW in 2 hrs & well died. Swb'd 73 BLW in 7 hrs. Good show of gas. 1815 BLW to rec.	
4/29/76	PBSD 3073', Council Grove 2887-2952' (5 sets). Swb'g to C.U. after frac. Swb'd & flw'd by heads 104 BLW in 10 hrs. Gas Vol 600-950 MCFPD. 1711 BLW to rec.	
4/30/76	PBSD 3073', Council Grove 2887-2952' (5 sets). Swb'g to C.U. after frac. Swb'd & flw'd by heads 62 BLW in 10 hrs. Gas Vol 550-1000 MCFPD. 1649 BLW to rec. TEC \$123,345. TCTD \$56,9488.	
5/1/76	PBSD 3073', Council Grove 2887-2952' (5 sets). Swab testing after frac. Shut down due to heavy rains. No crew out.	
5/2/76	PBSD 3073', Council Grove 2887-2952' (5 sets). Flw'g to C.U. after frac. Chk'd top Sd @ 3030' (38' fillup). Swb'd 27 BLW in 3 hrs & well K.O. Flw'd 55 BLW in 6 hrs. Gas Vol TWTM. 1567 BLW to rec.	
5/3/76	PBSD 3073', Council Grove 2887-2952' (5 sets). Swb'g to C.U. after frac. Flw'd 32 BLW in 10 hrs & died. Gas Vol TWTM. 1535 BLW to rec.	
5/4/76	PBSD 3073', Council Grove 2887-2952' (5 sets). Swb'g to C.U. after frac. Swb'd 8 BLW in 1 hr & well kicked off. Flw'd 37 BLW in 9 hrs. Gas Vol 1000 MCFPD. 1490 BLW to rec.	
5/5/76	PBSD 3073', Council Grove 2887-2952' (5 sets). Flw'g to C.U. after frac. Chk'd & found Sd @ 3030'. C.O. Sd 3030-68'. Swb'd 4 BLW in 1 hr & well K.O. Flw'd 30 BLW in 20 hrs. Gas Vol 1000 MCFPD. 1456 BLW to rec.	

CITIES SERVICE OIL COMPANY

Daily Well History - Interim Report

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LEASE / UNIT NAME AND WELL NO.		REGION
ENGLISH C #2		Mid-Cont (South)
COUNTY - PARISH - STATE - PROVINCE	FIELD OR PROSPECT NAME	AFE NUMBER
Grant County, Kansas	Panoma Field	7-1577574
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
3/29/76	TD 3090' (73') Lm. WOC. Mud Wt 9.6, Visc 33, LCM 4#, WL 15, Cls 28,000. 3/4 degree @ 3090'. Cond hole @ 3090' for 1½ hrs. P00H. Ran 74 jts 4½" 10.79#, 44 jts B Grade & 30 jts A Grade csg & set @ 3089'. Dowell cmt w/125 sx 35/65 Pozmix³ w/6% total gel, 1/4# D-29 & .8 of 1% D-65 followed by 100 sx 50/50 pozmix³ w/2% gel, 10% salt, 1/4# D-29 & .8 of 1% D-65. Good circ. Plug dn @ 5:45 p.m. 3/28/76. Bare pipe & rotating scratchers from 2800' to 3000'. Six centralizers @ 2440', 2562', 2700', 2884', 2976' & 3080'. Released rig @ 6:00 p.m. 3/28/76.	
3/30/76	TD 3090', 4½" csg @ 3089'. WOC.	
3/31/76	TD 3090', 4½" csg @ 3089' W.O. completion unit. Will drop from report until one is available.	
4/15/76	TD 3090', 4½" csg @ 3089'. M.I. completion unit.	
4/16/76	PBDT 3073', 4½" csg @ 3089'. SD for holiday weekend. Ran sand pump & C.O. to hard btm. Welex ran GR-Neutron, Cmt Bond & CC Log to 3073'. Top cmt @ 2092'. Good cmt bond 2092-3073'. SD, wind & rain storm.	
4/17/76	PBDT 3073', 4½" csg @ 3089'. SD for holiday weekend.	
4/18/76	PBDT 3073', 4½" csg @ 3089'. SD for holiday weekend.	
4/19/76	PBDT 3073', 4½" csg @ 3089'. Prep to perf Council Grove. SD for holiday weekend.	
4/20/76	PBDT 3073', Council Grove 2887-2952' (5 sets). SD location flooded. Tested csg to 1000 psi for 30 mins, held OK. Swb'd csg dry. Loaded csg to 2450' w/8 bbls 1% KCLW. Perf Council Grove 2887-92', 2902-08', 2910-15', 2918-30', 2942-52' (76 jets). Swb'd 8 BLW & csg swb'd dry. No show gas. All load rec.	
4/21/76	PBDT 3073', Council Grove 2887-2952' (5 sets). Shut down. Location flooded.	
4/22/76	PBDT 3073', Council Grove 2887-2952' (5 sets) SD. Location too wet to move in frac equipment. Move out completion unit.	
4/23/76	PBDT 3073', Council Grove 2887-2952' (5 sets). Prep to frac. M.I. frac equipment. M.I. completion unit. TEC \$123,345. TCTD \$54,488.	
4/24/76	PBDT 3073', Council Grove 2887-2952' (5 sets). Prep to frac. M.I. frac equipment.	

CITIES SERVICE OIL COMPANY

Daily Well History - Initial Report

- WELL FILE COPY -

INSTRUCTIONS: Submit an Initial Report on or before the first Wednesday after spudding. Complete applicable data and begin in the appropriate space a daily chronological record of drilling activity. Daily work prior to spudding should be summarized giving inclusive dates only. Include in the initial summary the exact surface location of the drill site and if the well is directionally drilled, also report bottom hole location at projected TD. Description of work performed in the Initial Report after spud date should be a complete report of each days Drilling Activity. Significant workovers may also be recorded on an Initial Report.

LEASE/ UNIT NAME & WELL NO. ENGLISH C #2		OPERATOR CSOC		REGION Mid-Cont (South)	
COUNTY - PARISH - STATE - PROVINCE Grant County, Kansas		FIELD OR PROSPECT NAME Panoma Field		AFE NUMBER 7-1577574	APPRO. I 07P76
NET ACRES IN DRLG. BLK. 640	PROJECTED TD & DEEPEST OBJECTIVE FORMATION 3060 Council Grove		SEC. REC. PROJECT NO. -----	AUXILIARY COST CENTER 7-1525530	
SPUD DATE & HOUR 3/24/76 7:50 a.m.	KIND OF RIG Rotary	DEPTH OF WATER -----	OFFSHORE GROUP -----	API WELL NUMBER 15-067-20375	
ELEVATION KB 3096 GL 3088	ORIGINAL COST ESTIMATE \$123,345	DRLG. COST INTEREST IF DIFFERENT FROM GROSS WI -----		CO. GROSS WI 100%	NET REV. I 87.5%

DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED
	Owner: Anita C. Lehner 2700 Pleasant Pl. Great Bend, Ks. 67530 Phone: 316-792-1676 Tenant: Arlan Alexander Rt. 1 Ulysses, Ks. 67880 Phone: 316-276-6301 Crop: Irrigated wheat L&S Elev: GL 3088'; DF 3095'; KB 3096' Dr'l'g Contr: Earl Wakefield, Rig #1 Phone: 316-624-2366 Pusher: *Herb Marrell Phone: **316-624-6117 Liberal Mud Co: Milchem Phone: 316-624-2872 Liberal Mud Engr: Dale Horton Phone: 316-624-4570 Answ Serv: Geologist: *Box 1203, Liberal, Ks. 67901 **Mobil YK 58289, reg out of Liberal, Ks.
3/11/76	Staked location 300' FNL & 150' FWL SE/4, Section 20-27S-35W, Grant County, Kansas
3/17/76	Leveled location, dug pits and built road.
3/24/76	M.I. rotary tools. Prep to spud.
3/25/76	STD 809' (809') Red Beds. Native mud. Prep to D.O. from under 8-5/8" csg. Spudded 12 3/4" hole @ 7:50 a.m. 3/24/76. Dr'l'g to STD of 809'; pulled DP & bit. Slope test: 3/4 degree @ 809'. Ran 24 jts 8-5/8", 24#, 8R, STC A Grade csg (799') set @ 808' KB. Top Red Beds 759'. Cmt'd w/200 sx 35/65 Pozmix w/6% gel, 2% CaCl, 1/2# D-29, followed by 175 sx Class H, 2% CaCl, 1/4# D-29. Good circ thru job. Cmt circ. Plug dn 5:00 p.m. 3/24/76. Used 3 centralizers @ 92', 720', 800'. WOC 12 hrs. Tested csg to 500 psi for 30 mins, held OK. Prep to drill out.
3/26/76	Dr'l'g @ 2178' (1369') Sh & Lm. Mud Wt 9.7, Visc 31, LCM 5. 3/4 degree @ 1275'. 1/2 degree @ 2128'. TEC \$123,345. TCTD \$18,929.
3/27/76	Dr'l'g @ 2610' (432') Lm & Sh. Mud Wt 9.7, Visc 36, LCM 4#, WL 15, Cls 28,000. 3/4 degree @ 2450'. L&S Elev: GL 3088'; DF 3095'; KB 3096'.
3/28/76	Dr'l'g @ 3017' (407') Lm. Mud Wt 9.6, Visc 33, LCM 4#, WL 15, Cls 28,000.