

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

Operator: License 8061

Name: OIL PRODUCERS, INC. OF KANSAS

Address P.O. BOX 8647

City/State/Zip WICHITA, KANSAS 67208

Purchaser: Cooperative Refinery, KGS/ Dynege

Operator Contact Person: DIANA RICHECKY

Phone (316) 681-0231

Contractor: Name: MALLARD JV, INC.

License: 4958

Wellsite Geologist: WILLIAM SHEPHERD

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:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

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

10/1/99 _____ 10/10/99 _____ 12/26/99 _____
Spud Date _____ Date Reached TD _____ Completion Date _____

SIDE ONE

API NO. 15- 097-21446 - 0000 ORIGINAL

County KIOWA

W/2- SW - SW Sec. 13 Twp. 28 Rge. 18 ^E _W

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

4950 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 BORTH Well # 1

Field Name HARDY

Producing Formation _____

Elevation: Ground 2207 KB 2215

Total Depth 4890 ~~BTD~~ 4847

Amount of Surface Pipe Set and Cemented at 497

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan Att. 6.2-28-00 UC.
(Data must be collected from the Reserve Pit)

Chloride content 8320 ppm Fluid volume 160 bbls

Dewatering method used: DRY AND RESTORE TO NEAR NORMAL

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

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, 200 Colorado Derby Building, 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 John S. Weir John S. Weir

Title President Date 2/15/2000

Subscribed and sworn to before me this 15th of February, 2000.

Notary Public Diana L. Richecky

Date Commission Expires Jan 12, 2009

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)



RECEIVED
STATE CORPORATION COMMISSION

FEB 16 2000

CONSERVATION DIVISION
Wichita, Kansas

X

Operator Name Oil Producers, Inc. of Kansas Lease Name BORTH Well # 1 **ORIGINAL**
 Sec. 13 Twp. 28S Rge. 18 East West
 County KIOWA

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.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	HEEBNER	4047'	-1835'
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	BROWN LIME	4206'	-1994'
(Submit Copy)		LANSING KANSAS CITY	4224'	-2012'
List All E.Logs Run:		BKC	4615'	-2403'
GEOLOGICAL LOG, COMPENSATED		CHEROKEE SAND	4747'	-2535'
DENSITY NEUTRON LOG, DUAL		MISSISSIPPI	4806'	-2594'
INDUCTION LOG, SONIC LOG, MICRO LOG,		LTD	4892'	-2680'
DUAL RECEIVER CEMENT BOND LOG				

CASING RECORD <input type="checkbox"/> New <input checked="" 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"	23#	497	MidCon /6040	75/160	3% CC, 2% gel

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
2	4810-4822'	see attached initial completion report	
4	4228-4232'		

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	4838.10		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj.	Producing Method	Flowing	Pumping	Gas Lift	Other (Explain)	Gravity
12/26/99	X					
Estimated Production	Oil Bbls.	Gas 103 mcfpd	Mcf	Water 33 BHPD	Bbls. Gas-Oil Ratio	

Disposition of Gas: **METHOD OF COMPLETION** Production Interval
 Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 4810-4822
 (If vented, submit ACO-18.) Other (Specify) 4228-4232

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 CONSERVATION DIVISION
 Wichita, Kansas

MALLARD JV, Inc.
DRILLING CONTRACTORSP. O. Box 1009
MCPHERSON, KS 67460 316-241-4640**Drillers Log**OPERATOR: **Oil Producers, Inc. of Kansas**
P. O. Box 8647
Wichita, KS 67208WELL: **Borth #1**

API #: 15-097-21446-0000

COMMENCED: October 1, 1999

LOCATION: W/2 SW SW
660' FSL, 4950' FEL
Section 13, Township 28 S, Range 18 W
Kiowa County, KS

COMPLETED: October 11, 1999

TOTAL DEPTH: 4890'

ELEVATION: 2207' GL, 2212' KB

STATUS: Set Casing - Mississippi formation

SPUD: 10:30 pm 10/1/99

SIZE HOLE DRILLED: 12-1/4" x 507'

SURFACE CASING SIZE: 8-5/8" x 24# x 497.05' (12 jts.)

SET AT: 504.25'

CEMENT: 75 sacks 60/40 Pozmix, 2% gel, 3% cc, and 160 sacks Lite

SIZE HOLE DRILLED: 7-7/8" x 4890' RTD

PRODUCTION CASING: 5-1/2" x 15# x 4900'

SET AT: 4888'

CEMENT: 175 sacks 60/40 Pozmix, and 175 sacks AA-2

PD: 12:45 am 10/11/99

DRILL STEM TESTS: 1

ELECTRIC LOG: Yes

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CONSERVATION DIVISION
Wichita, Kansas

OIL PRODUCERS INC., OF KS.
INITIAL COMPLETION REPORT

WELL - BORTH #1

LEGAL - W/2-SW/SW OF 13-28s-18w IN KIOWA CO. KS.

API # - 15-097-21,446

G.L. - 2209'

K.B. - 5' ABOVE G.L. @ 2214'

SURFACE CSN - 8 5/8" @ 497' WITH 235 SX

RTD - 4890'

PRODUCTION CSN - 5 1/2", 15.5# @ 4888' WITH 175 SX EA-2

TOP OF CEMENT - 3765' WITH EXCELLENT CEMENT BONDING ACROSS PAY INTERVALS

PBTD - 4855' (ELI 10/29/99 CORRELATION LOG), 4847' (BY TBG TALLY) 11/24/99

PERFORATIONS - MISS CHERT-----4810'-4822' 2 SHOTS/FT. 11/9/99
LANSING - A-----4228'-4232' 4 SHOTS/FT. 11/17/99

TUBING RAN - 15' X 2 7/8" MA, SN, 158 JTS. 2 7/8" TUBING. (4819.00')

TUBING SET @ - 4838.10' (SET 9' OFF BOTTOM 11/24/99)

AVERAGE TBG JT. - 30.50'

PUMP RAN - 2 1/2" X 2" X 14' RWTC WITH 6' GAS ANCHOR.

RODS RAN - PUMP, 2' X 3/4", 114 - NEW 3/4", 78 - NEW 7/8", 1 1/4" X 16' P.R. WITH 8' LINER

PUMP SET @ - 4823.10'

PUMPING UNIT - BETHLEHAM 228 D, S.N. - S-176, WITH 64" STROKE

ENGINE - CONTINENTAL C-96

SURFACE EQUIPMENT - 4' X 20' HEATER TREATER
2 - 10' X 12' 210 BBL STEEL STOCK TANKS.
10' X 12' 210 BBL STEEL WATER TANK
2' X 6 1/2' VERTICAL 125# SEPARATOR WITH MANUAL DUMP.

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Wichita, Kansas

10/29/99

ELI WIRELINE ON LOCATION TO RUN CORRELATION AND BOND LOG.
FOUND TOTAL DEPTH - 4855' (THIS IS 4' HIGH TO TOP OF INSERT @ 4859')
FOUND TOP OF CEMENT - 3765' WITH EXCELLENT CEMENT BONDING ACROSS PAY INTERVALS.

11/9/99

COMANCHE WELL SERVICE ON LOCATION, RIGGED UP D-D DERRICK.
 SWAB 5 1/2" CASING DOWN TO 4400' FROM SURFACE.

ELI WIRELINE ON LOCATION TO PERFORATE PROPOSED INTERVAL IN MISSISSIPPI CHERT
PERFORATED MISS CHERT - 4810'-4822' WITH 2 SHOTS/FT. UTILIZING 32 GRAM EXPENDABLE CSN GUN.

COMANCHE SWABBED WELL DOWN TO TTL DEPTH.
1/2 HR. NATURAL TEST - RECOVERED NO FLUID WITH SLIGHT SHOW OF GAS.

ACID SERVICES ON LOCATION TO ACIDIZE MISS CHERT WITH 2000 GALS 15% DSFE ACID AND 44 BALL SEALERS.

ACIDIZE MISS CHERT AS FOLLOWS:

PUMP 500 GALS 15% DSFE ACID.
 PUMP 1500 GALS 15% DSFE ACID WITH 44 BALL SEALERS SPACED EQUALLY.
 LOAD HOLE WITH 70 BBLs FIELD BRINE.
 PRESSURED TO 1000#, ACID STARTED FEEDING.
 DISPLACE ACID @ 5 BPM - 200#.
ISIP - VAC, TOTAL LOAD - 169 BBLs.

COMANCHE RIGGED TO SWAB BACK ACID LOAD AND TEST MISS CHERT PERFS AFTER ACID.

TEST MISS AFTER ACID AS FOLLOWS:

FOUND FLUID LEVEL @ 500' FROM SURFACE.
 SWAB WELL DOWN & RECOVERED 122.74 BBLs WITH SLIGHT SHOW OIL & GAS.
1/2 HR. TEST - RECOVERED 1.67 BBLs, WITH SLIGHT SHOW GAS AND TRACE OIL.
 SHUT DOWN FOR THE NIGHT.

11/10/99

SICP - 60 psi, FLUID LEVEL - 3900' DOWN, FREE OIL - TRACE.

CONTINUE TESTING MISS AFTER ACID AS FOLLOWS:

SWAB WELL DOWN, RECOVERED 25.05 BBLs.
1/2 HR. TEST - RECOVERED .41 BBLs, SHOW GAS, TRACE OIL.
1 HR. TEST - RECOVERED 1.25 BBLs, TRACE OIL, TEST GAS @ 15 MCFPD.

ACID SERVICES ON LOCATION TO FRACTURE MISS PERFS WITH 28,500 GALS 25# LINEAR GEL AND 31,000# SAND, TAILING IN WITH RESINATED SAND.

FRACTURE MISS CHERT PERFS AS FOLLOWS:

PUMP 10,000 GAL PAD AND ESTABLISH INJECTION RATE @ 15 BPM - 600#.
 PUMP 2500# 20/40 SAND @ 1 PPG (2500 GALS) @ 15 BPM - 600#.
 PUMP 5000# 20/40 SAND @ 2 PPG (2500 GALS) @ 15 BPM - 575#.
 PUMP 6250# 20/40 SAND @ 2.5 PPG (2500 GALS) @ 15 BPM - 525#.
 PUMP 6250# 10/20 SAND @ 2.5 PPG (2500 GALS) @ 15 BPM - 525#.

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CONSERVATION DIVISION

PUMP 7500# 10/20 SAND @ 3 PPG (2500 GALS) @ 15 BPM - 550#.
 PUMP 3500# ACFRAC SAND @ 3.5 PPG (1000 GALS) @ 15 BPM - 575#.
11/10 CONT.

FRAC AS FOLLOWS CONT.

FLUSH SAND TO PERFS WITH 5000 GALS GEL @ 15 BPM - 800#.
ISIP - 550#, 5 MIN SIP - 400#, 10 MIN SIP - 300#, 15 MIN SIP - 250#.
TOTAL LOAD TO RECOVER - 28,500 GALS (678 BBLs).
TOTAL SAND - 31,000#.
 SHUT DOWN FOR THE DAY.

11/11/99

SICP - VAC, FLUID LEVEL - 2500' DOWN, SBHP - CALCULATES 1102 psi.
 COMANCHE RIGGED TO SWAB BACK FRAC LOAD VIA 5 1/2" CASING SWAB.

SWAB TEST MISS CHERT PERFS AFTER FRAC AS FOLLOWS:

SWAB ALL DAY, RECOVERED 230 BBLs OF FRAC LOAD TTL FOR THE DAY.
 WELL SWABBED DOWN @ END OF DAY.
 HAVE SHOW OF GAS AND TRACE OF OIL @ END OF DAY.
 SHUT DOWN FOR THE NIGHT.

11/12/99

SICP - 140 psi, FLUID LEVEL - 3000' FROM SURFACE. FREE OIL - 10'
SBHP - MISS CALCULATES 1017 psi.

CONTINUE SWAB TESTING MISS AFTER FRAC AS FOLLOWS:

SWAB WELL DOWN & RECOVERED 120.24 BBLs.
1 HR. TEST - RECOVERED 13.36 BBLs, TRACE OF OIL AND SHOW OF GAS.
1 HR. TEST - RECOVERED 16.70 BBLs, TRACE OF OIL AND SHOW OF GAS.
1 HR. TEST - RECOVERED 16.70 BBLs, TRACE OF OIL AND SHOW OF GAS.
1 HR. TEST - RECOVERED 10.02 BBLs, TRACE OF OIL AND SHOW OF GAS.
1 HR. TEST - RECOVERED 8.35 BBLs, TRACE OF OIL AND SHOW OF GAS.
1 HR. TEST - RECOVERED 8.35 BBLs, TRACE OF OIL AND SHOW OF GAS.

WE HAVE RECOVERED 423 BBLs OF 678 BBL FRAC LOAD @ THIS POINT 62%.
 SHUT DOWN FOR THE WEEKEND.

11/15/99

SICP - 670 psi, FLUID LEVEL - 3300' DOWN, FREE OIL - 75', FILL-UP OIL % - 4%

CONTINUE SWAB TESTING MISS PERFS AFTER FRAC AS FOLLOWS:

SWAB WELL DOWN, RECOVERED 53 BBLs.
1 HR. TEST - RECOVERED 13.36 BBLs, TRACE OF OIL, SHOW OF GAS.
1 HR. TEST - RECOVERED 21.71 BBLs, TRACE OF OIL, SHOW OF GAS.
1 HR. TEST - RECOVERED 18.37 BBLs, TRACE OF OIL, GAS BLOW GETTING STRONGER.
1 HR. TEST - RECOVERED 15.03 BBLs, TRACE OF OIL, MEASURE GAS @ 141 MCFPD.
1 HR. TEST - RECOVERED 17.43 BBLs, TRACE OF OIL, MEASURE GAS @ 153 MCFPD.
1 HR. TEST - RECOVERED 16.70 BBLs, TRACE OF OIL, MEASURE GAS @ 166 MCFPD.
1 HR. TEST - RECOVERED 15.03 BBLs, TRACE OF OIL, MEASURE GAS @ 187 MCFPD.

STATE CORPORATION COMMISSION
 RECEIVED
 STATE RECOVERY FOR THE DAY 170.63 BBLs. WE HAVE RECOVERED 593.63 BBLs OF 678 BBL FRAC

FEB 16 2000

LOAD @ THIS POINT. 88% OF FRAC LOAD IS RECOVERED.
SHUT DOWN FOR THE NIGHT.

11/16/99

SICP - 620 psi, FLUID LEVEL - 3800' FROM SURFACE., FREE OIL - 100', FILL-UP OIL % - 10%.
SBHP - MISS CALCULATES 1163 psi.

CONTINUE SWAB TESTING MISS AFTER FRAC AS FOLLOWS:

SWAB WELL DOWN AND RECOVERED 25.00 BBLS.

1 HR. TEST - RECOVERED 17.50 BBLS, 8% OIL, TEST GAS @ 187 MCFPD.

1 HR. TEST - RECOVERED 17.50 BBLS, 7% OIL, TEST GAS @ 166 MCFPD.

1 HR. TEST - RECOVERED 14.00 BBLS, 9% OIL, TEST GAS @ 166 MCFPD.

1 HR. TEST - RECOVERED 14.00 BBLS, 10% OIL, TEST GAS @ 166 MCFPD.

1 HR. TEST - RECOVERED 15.00 BBLS, 10% OIL, TEST GAS @ 166 MCFPD.

WE HAVE RECOVERED 697 BBLS OF 678 BBL FRAC LOAD @ THIS POINT.
CHECK SAND FILL-UP. HAVE 52' FILL-UP @ THIS POINT.

WEATHERFORD ON LOCATION WITH 5 1/2" SAND PUMP.
RIG UP SAND PUMP TO CLEAN OUT WELL BORE OF FRAC SAND AND ESTABLISH RAT HOLE.
CLEAN OUT WELL BORE OF SAND TO TOTAL DEPTH 4855'.
SHUT DOWN FOR THE NIGHT.

11/17/99

SICP - 650 psi, BLOW WELL DOWN.
ELI ON LOCATION TO SET CIBP OVER MISS PERFS AND PERFORATE LANSING-A.
SET CIBP - OVER MISS PERFS @ 4300', FOUND FLUID LEVEL @ 3500'.
PERFORATE LANSING-A - 4228'-4232' WITH 4 SHOTS/FT.

COMANCHE SWABBED WELL DOWN TO TTL DEPTH 4300'.
1/2 HR. NATURAL TEST LANSING-A - RECOVERED NO FLUID OR GAS.

ACID SERVICES ON LOCATION TO ACIDIZE LANSING-A PERFS WITH 750 GALS 15% DSFE ACID.
ACIDIZE LANSING-A PERFS AS FOLLOWS:

PUMP 750 GALS 15% DSFE ACID.

LOAD HOLE WITH 85 BBLS FIELD BRINE.

PRESSURED TO 1000 psi, ACID STARTED FEEDING.

DISPLACE 350 GALS ACID @ 2 BPM - 700# TO 600#.

DISPLACE 400 GALS ACID @ 3.5 BPM - 700# TO 725#.

ISIP - 650 psi, 1 MIN SIP - 500 psi.

TOTAL LOAD TO RECOVER - 121 BBLS.

COMANCHE RIGGED TO SWAB BACK ACID LOAD AND TEST LANSING-A AFTER ACID.
TEST LANSING AFTER ACID AS FOLLOWS:

FOUND FLUID LEVEL @ SURFACE WITH PRESSURE. FLOW BACK BRIEFLY.

SWAB WELL DOWN, RECOVERED 123.34 BBLS WITH SHOW OF OIL.

1/2 HR. TEST - RECOVERED 3.34 BBLS, 27% OIL, LIGHT GAS BLOW.

1/2 HR. TEST - RECOVERED 4.17 BBLS, 18% OIL, LIGHT GAS BLOW.

1/2 HR. TEST - RECOVERED 2.50 BBLS, 12% OIL, LIGHT GAS BLOW.

1/2 HR. TEST - RECOVERED 1.67 BBLS, 22% OIL, LIGHT GAS BLOW.

1/2 HR. TEST - RECOVERED 1.67 BBLS, 24% OIL, LIGHT GAS BLOW.

SHUT DOWN FOR THE NIGHT.

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STATE CORPORATION COMMISSION

11/18/99

SICP - 7 psi, FLUID LEVEL - 3200' DOWN, FREE OIL - 100', OIL% - 10%
 SBHP - LANSING-A CALCULATES 486 psi.

SWAB WELL DOWN AND RECOVERED 25 BBLs.

ACID SERVICES ON LOCATION TO RE-ACIDIZE LANSING-A PERFS WITH 2000 GALS 15% SGA ACID AND 1000 GALS 25# GELLED WATER TO MAKE UP 3000 GALS GELLED PAD ACID TREATMENT.

RE-ACIDIZE LANSING-A AS FOLLOWS:

PUMP 1000 GALS 15% SGA ACID
 PUMP 500 GALS 25# GELLED WATER.
 PUMP 1000 GALS 15% SGA ACID
 PUMP 500 GALS 25# GELLED WATER
 LOAD HOLE WITH 32 BBLs FIELD BRINE
 DISPLACE TREATMENT @ 2 BPM - 650# TO 700#.
ISIP - 650#, 1 1/2 HR. SIP - 25#.
TTL LOAD TO RECOVER - 173 BBLs.

COMANCHE RIGGED TO SWAB BACK ACID LOAD AND TEST LANSING-A AFTER RE-ACID AFTER LEAVING WELL SHUT IN FOR 1 1/2 HRS TO ALLOW TIME FOR GEL TO BREAK.

TEST LANSING AFTER RE-ACID AS FOLLOWS:

FOUND FLUID LEVEL @ SURFACE WITH 25# ON CASING.
 SWAB WELL DOWN AND RECOVERED 180 BBLs, 13% OIL, WITH GOOD GAS BLOW.
1/2 HR. TEST - RECOVERED 13.36 BBLs, 15% OIL, GOOD GAS BLOW
1/2 HR. TEST - RECOVERED 11.69 BBLs, 11% OIL, GOOD GAS BLOW
1/2 HR. TEST - RECOVERED 10.02 BBLs, 16% OIL, GOOD GAS BLOW
1/2 HR. TEST - RECOVERED 6.68 BBLs, 15% OIL, GOOD GAS BLOW
1/2 HR. TEST - RECOVERED 6.68 BBLs, 15% OIL, GOOD GAS BLOW
1/2 HR. TEST - RECOVERED 6.68 BBLs, 15% OIL, GOOD GAS BLOW
 SHUT DOWN FOR THE NIGHT.

11/19/99

SICP - 6 psi, FLUID LEVEL - 3400' DOWN, FREE OIL - 50', OIL% - 6%
 SBHP - LANSING-A CALCULATES 395 psi.

NOTE: DECISION MADE TO DRILL OUT CIBP @ 4300' OVER MISS AND CO-MINGLE MISS AND LANSING-A ZONES.

KS FISHING TOOLS ON LOCATION WITH SAND LINE DRILL.

RIG UP DRILL TO DRILL OUT CIBP @ 4300'

WHILE DRILLING ON CIBP, SLD BECAME STUCK IN HOLE ON TOP OF CIBP.

COULD NO GET WIRELINE UNIT TO CUT SAND LINE OFF UNTIL AM.

SHUT DOWN FOR THE NIGHT.

11/20/99

NLS WIRELINE ON LOCATION TO CUT SAND LINE OFF ON TOP OF SAND LINE DRILL.
 CUT SAND LINE.

KS FISHING TOOL ON LOCATION WITH FISHING TOOLS.

RIH - WITH O.S., BUMPER SUB AND TUBING.

LATCH ONTO SAND LINE DRILL @ 4230'.

PUSH SLD TO TTL DEPTH TO DRIVE CIBP TO BOTTOM.

COULD NOT COME OUT OF HOLE WITH SLD, AS IT IS STUCK IN HOLE.

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11/20 CONT.

RELEASE OVERSHOT AND POOH WITH TUBING AND FISHING TOOLS.
SHUT DOWN FOR THE NIGHT.

11/22/99

RIH - WITH HYDRAULIC JARS, BUMPER SUB, O.S., AND TUBING.
TRY FOR 1 1/2 HRS. TO JAR SLD LOOSE. MADE 2' OF HOLE COMING UP.
HYDRAULIC JARS MALFUNCTIONED.
POOH - WITH TUBING AND FISHING TOOLS.
SHUT DOWN FOR THE NIGHT.

11/23/99

RIH - WITH O.S., B.S., H.J., 2 - 3 1/2" DRILL COLLARS, BOWEN ACCELERATOR AND TUBING.
JARRED SLD LOOSE.
POOH - WITH TUBING, FISHING TOOLS, AND SAND LINE DRILL.

NOTE: LEFT DOOR SLEEVE ASSEMBLY OF SAND LINE DRILL IN HOLE. APPROX DIMENSIONS = 5"
O.D. X 3/16" THICK WALL X 10" LONG. WITH CIBP BELOW DOOR ASSEMBLY

START IN HOLE WITH PRODUCTION TUBING.
SHUT DOWN FOR THE NIGHT.

11/24/99

RAN PRODUCTION TUBING FROM YEAGER LEASE IN HOLE AS FOLLOWS:

RAN TUBING AS FOLLOWS:

MUD ANCHOR X 2 7/8"	15.00'
SEATING NIPPLE X 2 7/8"	1.10'
158 JTS. 2 7/8" USED T&D	4819.00'
K.B. (5' < 2' ABOVE G.L.)	3.00'
<u>TUBING SET @</u>	4838.10'
SEATING NIPPLE SET @	4823.10'

TAG TTL DEPTH @ 4847' (BY TBG TALLY), PICK UP & SET TUBING 9' OFF BOTTOM.
NOTE: LOST 8' OF RAT HOLE PBTB SHOULD BE @ 4855'.

RIG UP TO RUN NEW NORRIS 3/4" AND 7/8" RODS AND BOTTOM HOLE PUMP.

RUN PUMP AND RODS AS FOLLOWS:

2 1/2" X 2" X 14' RWTC WITH 6' GAS ANCHOR	16.00'
2' X 3/4" ROD SUB	2.00'
114 - NEW 3/4" NORRIS RODS	2850.00'
78 - NEW 7/8" NORRIS RODS	1950.00'
1 1/4" X 16' POLISHED ROD WITH 8' LINER	16.00'
<u>PUMP SET @</u>	4823.10'

SPACED RODS OUT, CLAMPED RODS OFF.
COMANCHE RIGGED DOWN AND MOVED OFF LOCATION.

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CONSERVATION DIVISION
Wichita, Kansas

11/29 TO 11/30/99

FIELDS ON LOCATION, BUILT TANK BATTERY GRADE APPROX 1100' TO SE OF WELL.
INSTALLED CULVERTS AND ROCKED TURN AROUND FOR TANK TRUCKS.
BUILT PUMPING UNIT GRADE TO EAST OF WELL.

SIoux TRUCKS ON LOCATION TO SET PUMPING UNIT AND ENGINE.

<u>SET PUMPING UNIT</u> - BETHLEHAM 228 D, S.N. - S-176, WITH 64" STROKE	FROM YEAGER
<u>SET ENGINE</u> - CONTINENTAL C-96	FROM YEAGER

SIoux TRUCKS AND STREMMEL ON LOCATION TO SET UP TANK BATTERY.

<u>SET HEATER TREATER</u> - 4' X 20' HEATER TREATER	FROM WALKER
<u>SET STOCK TANKS</u> - 2 - 10' X 12' 210 BBL STEEL STOCK TANKS	FROM WALKER
<u>SET WATER TANK</u> - 10' X 12' STEEL 210 BBL	FROM YEAGER.
<u>SET GAS SEPARATOR</u> - 2' X 6 1/2' VERTICAL, 125# WP, MANUAL DUMP	FROM WALKER

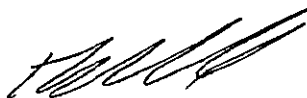
GABEL LEASE SERVICE ON LOCATION TO LAY LEAD LINE AND HOOK UP WELL.
DITCHED AND LAID APPROX 1100' OF 2 3/8" STEEL TUBING LEAD LINE FROM WELL TO TANK
BATTERY AND TIED INTO SEPARATOR.

BORED ROAD AND TIED IN ADVANTAGE WATER LINE STRAIGHT SOUTH ACROSS ROAD.
THIS LINE WILL TIE OUR WATER TO ADVANTAGE SWD.

HOOKEU UP WELL HEAD AND GAS SUPPLY TO ENGINE.

WILL PUT WELL ON AND PUMP FLUID OFF AWAITING GAS METERING STATION TO BE INSTALLED
BY KGS.

END OF REPORT



BRAD SIROKY

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STATE CORPORATION COMMISSION

FEB 16 2000

CONSERVATION DIVISION
Wichita, Kansas

COPY ORIGINAL



SALES OFFICE:
 105 S. Broadway
 Suite #490
 Wichita KS 67202
 (316) 262-3699
 (316) 262-5799 FAX
 (316) 734-5071 Cel

SALES & SERVICE OFFICE:
 10244 NE Hiway 61
 P.O. Box 8613
 Pratt, KS 67124-8613
 (316) 672-1201
 (316) 672-5383 FAX
 (316) 546-5548 Cel

Invoice

<i>Bill to:</i>		6395901	<i>Invoice</i>	<i>Invoice Date</i>	<i>Order</i>	<i>Order Date</i>
OIL PRODUCERS INC. OF KANSAS P.O. Box 8647 Wichita, KS 67208			991027	10/15/99	2206	10/10/99
<i>Service Description</i>						
Cement - Production string						
<i>Lease</i>					<i>Well</i>	
Borth					1	
<i>AFE</i>	<i>CustomerRep</i>	<i>Treater</i>	<i>Well Type</i>	<i>Purchase Order</i>	<i>Terms</i>	
	Shane Summers	Dave Scott	New Well		Net 30	

<u>ID.</u>	<u>Description</u>	<u>UOM</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Price</u>
D204	AA2	SK	150	\$13.56	\$2,034.00
D202	60/40 POZ	SK	40	\$8.00	\$320.00
C322	GILSONITE	LB	705	\$0.55	\$387.75
C192	FLA-1, FLUID LOSS	LB	36	\$3.20	\$115.20
C312	LATEX	GAL	13	\$14.85	\$193.05
C300	"A" FLUSH	GAL	10	\$15.00	\$150.00
C142	CC-2, CLAY STABILIZER	GAL	2	\$31.00	\$62.00
C223	SALT (Fine)	LBS	1050	\$0.35	\$367.50
F101	CENTRALIZER, 5 1/2"	EA	5	\$53.00	\$265.00
F151	LATCH DOWN PLUG & BAFFLE, 5 1/2"	EA	1	\$251.00	\$251.00
F800	THREADLOCK COMPOUND KIT	EA	1	\$30.00	\$30.00
F161	GUIDE SHOE-REGULAR, 5 1/2"	EA	1	\$115.00	\$115.00
R701	CEMENT HEAD RENTAL	EA	1	\$70.00	\$70.00
E107	CEMENT SERVICE CHARGE	SK	190	\$1.50	\$285.00
E100	HEAVY VEHICLE MILEAGE - 1 WAY	MI	25	\$2.50	\$62.50
E104	PROPPANT / BULK DELIV SERVICES/TON MILE, \$200 MIN	TM	224	\$1.25	\$280.00
R210	CASING CEMENT PUMPER, 4501-5000'	EA	1	\$1,740.00	\$1,740.00

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CONSERVATION DIVISION
Wichita, Kansas

Sub Total: \$6,728.00
Discount: \$2,276.46
Discount Sub Total: \$4,451.54
Tax Rate: 5.90% *Taxes:* \$0.00
(T) Taxable Item *Total:* \$4,451.54

PLEASE REMIT TO Acid Services, LLC, Dept No 1131, Tulsa, OK 74182

Accounts become past due the last day of the month following billing. Interest rate 1.5% per month (18% per year) on past due accounts.



INVOICE NO.		Subject to Correction		FIELD ORDER		02206	
Date	10-10-99	Lease	Borth	Well #	1	Legal	13-28-18
Customer ID		County	Kiowa	State	Ks	Station	Pratt Ks
Oil Prod of KS Inc		Depth		Formation		Shoe Joint	
Casing	3 1/2	Casing Depth	FT 4889	TD	4890	Job Type	Prod String New Well
Customer Representative				Treater			
Shane Summers				D. Scott			

CHARGE

AFE Number	PO Number	Materials Received by	X	Shane Summers
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Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING	
					CORRECTION	AMOUNT
D204	150 sk's	AA-2				
D202	40 sk's	40/60 por				
C322	705 lbs	Gilsonite				
C192	36 lbs	FLA-1 fluid loss				
C312	13 gal	Gas Block				
C300	5 gal	'A' flush				
C142	2 gal	CC-2				
C300	5 gal	'A' flush				
C223	1050 lb	Salt fine				
F101	5 ea	Centralizers 5 1/2 in				
F151	1 ea	h.d. Plug & Baffle				
F800	1 ea	Thread Lock Comp				
F161	1 ea	Guide Shoe 5 1/2 in				
R701	1 ea	Cement Head Rental				
E107	190 sk's	Cement Service Charge				
RECEIVED						
STATE CORPORATION COMMISSION						
FEB 16 2000						
CONSERVATION DIVISION						
Wichita, Kansas						
E100	1 ea	UNITS / way	MILES	25		
E104	224 tm	TONS	MILES	25		
R210	1 ea	EA. 4501-5000'		PUMP CHARGE		
				Discounted Price =	4451.54	
				+ Taxes		



Customer ID	Date
Customer Oil Prod Inc of KS	10-10-99
Lease Borth	Lease No. Well # 1
Field Order # 08205	Station Pratt KS
Casing 3 1/2	Depth 4889
County Kiowa	State KS
Type Job Prod String New Well	Formation
	Legal Description B-28-10

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/ft		Rate	Press	ISIP		
3 1/2				175 sk's 112 @ 14.8 lss				
Depth 4889	Depth	From	To	Pro Pad 40/60poz	Max	1500	5 Min.	
Volume 118.5 disp	Volume	From	To	PP = 4891	Min		10 Min.	
Max Press	Max Press	From	To	SK = 42.5 Bbl's	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To	24 Bbl's 2% KCL	HHP Used		Annulus Pressure	
Plug Depth	Packoff Depth	From	To	13 Bbl's mud flush	Gas Volume		Total Load	

Customer Representative Shane Summers	Station Manager Dave Autry	Treater Dave Scott	
Service Units 106	23	32	70

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1430					Called Out
1630					On loc w/ Trk's Safety mtg
					Run F.E. Cen + 55-3-5-21-20
					Csgn Bottom Drop Ball + Circ w/ Rig
					Rig up Trk's
2357	406		12	5	St mud flush
2359	400		20	5	St 2% KCL Preflush
2405	425		3.4	5	St mixing Scavenger Cmt 15 sk's 40/60poz
2406	400			5	St mixing Cmt 175 sk's 46as Block last 30 sk's
2416	0		46.1	0	finish mixing Cmt
2418			10	5	Chase In + Wash Pump + line
2421	100			7.5	Release Plug + St Disp w/ H2O
2433	300			7.0	lifting Cmt
2438	1100		118.5	0	Plug Down + PSI Test Csg
2440	6				Release psi float Held
					Good Circ During Job ✓
			5.7		Plug R.H. + M.H. w/ 25 sk's 40/60poz
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CONSERVATION DIVISION Wichita, Kansas					
Job Complete Thank you Scotty					



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Invoice

Bill to: OIL PRODUCERS INC. OF KANSAS P.O. Box 8647 Wichita, KS 67208	6395901	<i>Invoice</i>	<i>Invoice Date</i>	<i>Order</i>	<i>Order Date</i>
		991006	10/1/99	2244	10/1/99
<i>Service Description</i>					
Cement - Surface pipe					
<i>Lease</i>				<i>Well</i>	
Borth				1	
<i>AFE</i>	<i>CustomerRep</i>	<i>Treater</i>	<i>Well Type</i>	<i>Purchase Order</i>	<i>Terms</i>
	Arnie Hess	Frank Vogel	New Well		Net 30

<i>ID.</i>	<i>Description</i>	<i>UOM</i>	<i>Quantity</i>	<i>Unit Price</i>	<i>Price</i>
D202	60/40 POZ	SK	75	\$8.00	\$600.00
D205	A-SERV' LITE	SK	160	\$9.05	\$1,448.00
C310	CALCIUM CHLORIDE	LBS	600	\$0.50	\$300.00
C195	CELLFLAKE	LB	100	\$1.77	\$177.00
F143	WOODEN CEMENT PLUG, 8 5/8"	EA	1	\$71.00	\$71.00
E107	CEMENT SERVICE CHARGE	SK	235	\$1.50	\$352.50
E100	HEAVY VEHICLE MILEAGE - 1 WAY	MI	25	\$2.50	\$62.50
E104	PROPPANT / BULK DELIV SERVICES/TON MILE, \$200 MIN	TM	250	\$1.25	\$312.50
R201	CASING CEMENT PUMPER, 301-500'	EA	1	\$670.00	\$670.00

<i>Sub Total:</i>	\$3,993.50
<i>Discount:</i>	\$1,357.79
<i>Discount Sub Total:</i>	\$2,635.71
<i>Tax Rate: 5.90%</i>	<i>Taxes:</i> \$0.00
<i>(T) Taxable Item</i>	<i>Total:</i> \$2,635.71

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CONSERVATION DIVISION
Wichita, Kansas

PLEASE REMIT TO Acid Services, LLC, Dept No 1131 , Tulsa, OK 74182

Accounts become past due the last day of the month following billing. Interest rate 1.5% per month (18% per year) on past due accounts.



INVOICE NO.	Subject to Correction			FIELD ORDER	02244
Date 10-1-99	Lease Borth	Well # 1	Legal		
Customer ID	County Kiowa	State KS	Station Pratt		
Oil Producers of Kansas	Depth 500	Formation	Shoe Joint		
	Casing 8 5/8	Casing Depth 500	TD 504	Job Type Surface New Well	
Customer Representative		Treater F. Vogel			

CHARGE

AFE Number	PO Number
------------	-----------

Materials Received by *X [Signature]*

Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING	
					CORRECTION	AMOUNT
D202	75sk	60/40 Poz				
D205	160sk	A-Serv' Lite				
C310	600	Calcium Chloride				
C195	100#	Cellulose				
F143	1	Wooden Cement Plug				
RECEIVED STATE CORPORATION COMMISSION FEB 16 2000 CONSERVATION DIVISION Wichita, Kansas						
E107	235sk	Cement Serv. Charge				
E100	1	UNITS 25 MILES 1-Way				
E104	250	TONS 25 MILES				
R201	1	EA. 300 -500' PUMP CHARGE				
Discount Total			2,635.71			
Plus Tax						



TREATMENT REPORT

ORIGINAL
014.53

Customer ID		Date	
Customer		10-1-99	
Lease <i>Borth</i>		Lease No.	Well # <i>1</i>
Field Order # <i>2244</i>	Station <i>Pratt</i>	Casing <i>8 5/8</i>	Depth <i>504'</i>
		County <i>Kiowa</i>	State

Type Job *Surface cement New Well* Formation Legal Description

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>8 5/8</i>	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth <i>504</i>	Depth	From	To	Pre Pad <i>10</i>	Max			5 Min.
Volume <i>32.14</i>	Volume	From	To	Pad <i>60 Lead</i>	Min			10 Min.
Max Press	Max Press	From	To	Frac <i>16 Tail</i>	Avg			15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth <i>490</i>	Packer Depth	From	To	Flush <i>31.5</i>	Gas Volume			Total Load

Customer Representative *Arnie Hess* Station Manager *Dave Antry* Treater *Frank Vogel*

Service Units	<i>23</i>	<i>31</i>	<i>72.</i>					
---------------	-----------	-----------	------------	--	--	--	--	--

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>0830</i>	<i>-</i>				<i>arrive o/L Hold Safety Meeting</i>
<i>12:25</i>					<i>Break Circulation w/ Rig</i>
<i>12:35</i>	<i>100</i>		<i>10</i>	<i>4.5</i>	<i>Pump Pre-flush</i>
<i>12:40</i>	<i>100</i>		<i>1</i>	<i>4.5</i>	<i>Start Cement 12.8 PPG</i>
<i>12:51</i>	<i>-</i>		<i>60</i>	<i>4.5</i>	<i>lead cement gone.</i>
<i>12:52</i>	<i>-</i>		<i>61</i>	<i>4</i>	<i>start tail cement 14.3 PPG</i>
<i>12:55</i>	<i>-</i>		<i>76</i>	<i>3</i>	<i>Tail gone / shut down & send the Plug</i>
<i>12:08</i>	<i>100</i>				
<i>12:16</i>	<i>200</i>		<i>31.5</i>	<i>4</i>	<i>Displacement in. Shut in w.H. R/D close in head. ✓</i>

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Thanks For Choosing Acid Service

FEB 16 2000

Frank.

CONSERVATION DIVISION
Wichita Kansas