

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

API NO. 15- 171-20482-0000
County Scott
-SE- NW- SW Sec. 27 Twp. 17S Rge. 31 X ^E W

Operator: License # 3988

1650 Feet from (S)N (circle one) Line of Section

Name: Slawson Exploration Co., Inc.

990 Feet from E(W) (circle one) Line of Section

Address 200 N Harvey, STE 1412

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

City/State/Zip Oklahoma City, OK 73102

Lease Name Gruver Well # 'P' #2

Purchaser: Inland Crude Purchasing Corp.

Field Name _____

Operator Contact Person: Steve Slawson

Producing Formation LKC

Phone (405) 232-0201

Elevation: Ground 2925' KB 2930'

Contractor: Name: L. D. Drilling, Inc.

Total Depth 4571' PBSD 4527'

License: 6039

Amount of Surface Pipe Set and Cemented at 388 Feet

Wellsite Geologist: Richard Robba

Multiple Stage Cementing Collar Used? X Yes _____ No

Designate Type of Completion

If yes, show depth set _____ Feet

- New Well Re-Entry Workover
- Oil SWD SLOW Temp. Abd.
- Gas ENHR SIGW
- Dry Other (Core, WSW, Expl., Cathodic, etc)

If Alternate II completion, cement circulated from 2242'

feet depth to SURFACE w/ 650 sx cmt.

If Workover:

Drilling Fluid Management Plan ALT 2 JV 10-24-97
(Data must be collected from the Reserve Pit)

Operator: _____

Chloride content 2500 ppm Fluid volume 1500 bbls

Well Name: _____

Dewatering method used Evaporation (mostly rainwater)

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite: _____

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

Operator Name _____

Lease Name _____ License No. _____

4-12-95 4-23-95 6-9-95
Spud Date Date Reached TD Completion Date

OCT 2 7 49 97 Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

FROM CONFIDENTIAL

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 _____ STATE OF KANSAS

Title Division Operations Mgr. Date 06-08-95

Subscribed and sworn to before me this 8th day of June 06-12-95

Notary Public Carla D. P...

Date Commission Expires 12-1-96

K.C.C. OFFICE USE ONLY

Letter of Confidentiality Attached

Wireline Log Received

Geologist Report Received

Distribution

KCC SWD/Rep NGPA

KGS Plug Other (Specify)

Operator Name Slawson Exploration Co., Inc. Lease Name Gruver Well # 'P' #1

Sec. 27 Twp. 17 Rge. 31 East West County Scott

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:
CNL-CDL, DIL-SP-GR

Name	Formation (Top), Depth and Datum		Sample
	Top	Datum	
E/Anhy	2290	(+ 640)	
Wabaunsee	3500	(- 570)	
Heebner	3877	(- 947)	
Lansing	3916	(- 986)	
Muncie Ck	4102	(-1172)	
Stark	4189	(-1269)	
Hushpknv	4139	(-1309)	
BKC	4182	(-1352)	
Marmaton	4311	(-1381)	
Frt Scott	4452	(-1522)	
Cherokee	4475	(-1545)	
Miss	4547	(-1617)	
TD	4568		

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"	28#	388	60/40 Poz	250	2% Gel, 3% c
production	7 7/8"	4 1/2"	10.5#	4568	60/40 Poz	200	2% Gel, 10% salt .75 Halad 32

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input checked="" type="checkbox"/> Protect Casing	710-2243	60/40 Poz	500	
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone	0-710	60/40 Poz	150	8% gel

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	4257-4260	None	4260
4	650-652	150 sx 60/40 Poz	652

TUBING RECORD		Size 2-3/8"	Set At 4295'	Packer At ---	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 6-6-95			Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil 38 Bbls.	Gas 0 Mcf	Water 57 Bbls.	Gas-Oil Ratio ---	Gravity 32°

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 _____

ALLIED CEMENTING CO., INC.

1040

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT: Neosho City

DATE <u>4-12-95</u>	SEC. <u>27</u>	TWP. <u>17</u>	RANGE <u>31</u>	CALLED OUT <u>7:10 PM</u>	ON LOCATION <u>11:30 AM</u>	JOB START <u>6:00 AM</u>	JOB FINISH <u>2:30 PM</u>
LEASE <u>Owner</u>	WELL # <u>19' 2"</u>	LOCATION <u>Highway 15 - 210</u>			COUNTY <u>Scott</u>	STATE <u>MO</u>	

OLD OR NEW (Circle one) NEW

CONTRACTOR L D

TYPE OF JOB Surface

HOLE SIZE 12 1/4" T.D. 389'

CASING SIZE 2 3/8" 25' DEPTH 388'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15' - Displacement

PERFS. 234 BB1

OWNER Owner

CEMENT

AMOUNT ORDERED 250 10/40 283

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

_____ @ _____

_____ @ _____

RELEASE _____ @ _____

_____ @ _____

HANDLING 271991 @ _____

MILEAGE CONFIRM @ _____

TOTAL _____

EQUIPMENT

PUMP TRUCK CEMENTER Bill

222 HELPER Bob

BULK TRUCK

116 DRIVER Bill

BULK TRUCK

_____ DRIVER _____

REMARKS:

Don't use used 2 3/8" 25' pipe. Begin
reaming with 1 1/2" 250 5/8 (6040)
23' pipe displacement with 234 BB1
from water cement and Cement

Thank you
Bill
Bob

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

PLUG 1 1/2" @ _____

_____ @ _____

_____ @ _____

TOTAL _____

CHARGE TO: Lawson Operation

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Bill

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—**TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "ALLIED" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "ALLIED," refunded directly to "CUSTOMER." For purposes of this paragraph, ALLIED and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—**PRICES AND TAXES:** All merchandise listed in "ALLIED'S" current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—**TOWING CHARGES:** ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—**PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—**DEADHAUL, CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

—**SERVICE CONDITIONS AND LIABILITIES:** 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the wilful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

ALLIED CEMENTING CO., INC.

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT: Neosho

DATE <u>5-16-95</u>	SEC. <u>27</u>	TWP. <u>17</u>	RANGE <u>31</u>	CALLED OUT <u>6:00AM</u>	ON LOCATION <u>10:00AM</u>	JOB START <u>10:45AM</u>	JOB FINISH <u>11:20AM</u>
LEASE <u>Thompson</u>	WELL # <u>2</u>	LOCATION <u>Manning 1S-34W-Northo</u>	COUNTY <u>Scott</u>	STATE <u>K.S.</u>			

CONFIDENTIAL

CONTRACTOR Planes

TYPE OF JOB Perf. Circulating

HOLE SIZE 7 7/8" I.D. 4568

CASING SIZE 4 1/2" DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX 150# MINIMUM 50#

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. 650'

OWNER Same

CEMENT

AMOUNT ORDERED 150 60/40 89091

COMMON	<u>90</u>	@	<u>6.10</u>	<u>549.00</u>
POZMIX	<u>60</u>	@	<u>3.15</u>	<u>189.00</u>
GEL	<u>10</u>	@	<u>9.50</u>	<u>95.00</u>
CHLORIDE		@		
RELEASED		@		
CRANDLING	<u>150</u>	@	<u>1.05</u>	<u>157.50</u>
MILEAGE	<u>48</u>			<u>288.00</u>

EQUIPMENT

PUMP TRUCK CEMENTER Mike

224 HELPER Bob

BULK TRUCK DRIVER Bill

116

BULK TRUCK DRIVER _____

DEC 27 1997

TOTAL \$ 1278.50

REMARKS:

Pump to BBI water - got circulation

Mixed 150 sks 60/40 89091 - Cement dyed

Circulate. Pumped Rubber Plug down to

625'. Measured with wire line

Thank you

Allied Cementing

Mike, Bob, Bill

SERVICE

DEPTH OF JOB _____

(PUMP TRUCK CHARGE) 550.00

EXTRA FOOTAGE @ _____

MILEAGE 48 @ 2.35 112.80

PLUG 1 1/2" Rubber @ 38.00 38.00

TOTAL \$ 700.80

CHARGE TO: Slawson Exploration Co. Inc.

STREET 621 N. Robinson #490

CITY Okla City STATE OK. ZIP 73102

JUN 1 1995

FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL _____

TAX -0-

TOTAL CHARGE \$1979.30

DISCOUNT \$395.86 IF PAID IN 30 DAYS

Net \$ 1583.44

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE John H. Harper

ORIGINAL

ALCOED CEMENTING COMPANY, INC.

913-483-2627

P. O. BOX 31

RUSSELL, KANSAS 67665

RECEIVED
KANSAS CORPORATION COMMISSION

OCT 23 1997

CONSERVATION DIVISION
WICHITA, KS

To: Sl-wson Explorator
621 N. Robinson St. #940
Oklahoma City, Ok. 73102

Invoice No. 68879
Purchase Order No. _____
Lease Name Gruver #P-2
Date May 10, 1995

RELEASED

OCT 27 1997

Service and Materials as Follows:

FROM CONFIDENTIAL

Common 325 sks @\$6.10	\$ 1,982.50
Pozmix 175 sks @\$3.15	551.25
Gel 26 sks @\$9.50	247.00
Flo seal 1254 @\$1.15	143.75
Hulls 2 sks @\$5.50	11.00
	<u>2,935.50</u>

\$ 2,935.50

Handling 500 sk @\$1.05	525.00
Mileage (50) @\$0.04c per sk per miq	1,000.00
P. Collar pmp. trk. chg.	550.00
Mi @\$2.35 pmp. trk.	117.50
	<u>2,192.50</u>

2,192.50

Total

\$ 5,128.00

1,025.60

*S/By
5/26/95*

(1025.60)

\$4102.40

ACP code 280

Thank You!

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1 1/2% Charged Thereafter

ALLIED CEMENTING CO., INC.

0245

SHIP TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Oakley

DATE <u>5-10-95</u>	SEC. <u>27</u>	TWP. <u>17^s</u>	RANGE <u>31^W</u>	CALLED OUT	ON LOCATION <u>9:30 AM</u>	JOB START	JOB FINISH <u>2:45 PM</u>
LEASE <u>Gravel</u>	WELL # <u>P-2</u>	LOCATION <u>Manning 15-34W-4N</u>			COUNTY <u>Scott</u>	STATE <u>Kan</u>	

OLD OR NEW (Circle one)

CONTRACTOR Plains Well-Service

TYPE OF JOB Port Collar

HOLE SIZE _____ T.D. _____

CASING SIZE 4 1/2 DEPTH _____

TUBING SIZE 2" DEPTH 2467

DRILL PIPE _____ DEPTH _____

TOOL Port Collar DEPTH 2242

RES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. Plug 2514'

OWNER Same

CEMENT

AMOUNT ORDERED 500 SKS 67.5 per, 6% Gel
1/4" Flo-Seal
2-Sand

COMMON	<u>325 SKS</u>	@ <u>6.10</u>	<u>1,982.50</u>
POZMIX	<u>175 SKS</u>	@ <u>3.15</u>	<u>551.25</u>
GEL	<u>26 SKS</u>	@ <u>9.80</u>	<u>247.00</u>
CHLORIDE		@	
<u>Flo-Seal</u>	<u>125 #</u>	@ <u>1.15</u>	<u>143.75</u>
<u>Sand</u>	<u>2 SKS</u>	@ <u>5.00</u>	<u>11.00</u>
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>500 SKS</u>	@ <u>1.05</u>	<u>525.00</u>
MILEAGE	<u>44 per SK mile</u>		<u>1,000.00</u>

EQUIPMENT

RELEASED OCT 27 1997

PUMP TRUCK CEMENTER Walt

191 HELPER Wayne

BULK TRUCK DRIVER Dean

212

BULK TRUCK DRIVER Terry

218

REMARKS:

Test Plug 2100 psi, Hold, Spotted
2-Sand Operation, Pumped 4 1/2 lbs
had Cc, mixed 500 SKS cement
800 to 1000 psi, Displaced 8 BBL water
shut tool, Test 2100 psi, Hold, Washed
Cement out of casing, Washed Sand
OFF Plug

SERVICE

DEPTH OF JOB 2467'

PUMP TRUCK CHARGE 550.00

EXTRA FOOTAGE @ _____

MILEAGE 50 miles @ 2.35 117.50

PLUG @ _____

TOTAL 667.50

CHARGE TO: Slawson Exploration

STREET 621 N. Robinson St 940

CITY Obolena STATE Okla ZIP 73102

RECEIVED
KANSAS CORPORATION COMMISSION

OCT 23 1997

CONSERVATION DIVISION
WICHITA, KS

FLOAT EQUIPMENT

@ _____

@ _____

@ _____

@ _____

@ _____

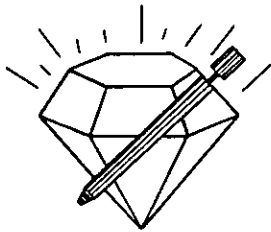
TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE John T. Haynes



CONFIDENTIAL

DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(316) 653-7550

ORIGINAL

Page 1 of 6 Pages
API# 15-171-20482-00-00

Company Slawson Exploration Co., Inc. Lease & Well No. Gruver "P" No. 2

Elevation 2930 KB Formation Lansing/Kansas City (35' Zone) Effective Pay 3 Ft. Ticket No. 1111

Date 4-17-95 Sec. 27 Twp. 17S Range 31W County Scott State Kansas

Test Approved By Richard A. Robba Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 3,946 ft. to 3,965 ft. Total Depth 3,965 ft.

Packer Depth 3,941 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3,946 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,934 ft. Recorder Number 13386 Cap. 3,875 psi

Bottom Recorder Depth (Outside) 3,962 ft. Recorder Number 13556 Cap. 4,400 psi

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor L. D. Drilling, Inc. Drill Collar Length -- I.D. -- in.

Mud Type Chemical Viscosity 44 Weight Pipe Length -- I.D. -- in.

Weight 9.5 Water Loss 12.0 cc. Drill Pipe Length 3,921 ft. I.D. 3 1/2 in.

Chlorides 3,500 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2-IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 19 ft. Size 4 1/2-FH in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Weak, 1/4 in., blow increasing to 5 ins. at end. No blow back during shut-in.

2nd Open: Weak, surface, blow increasing to 4 ins. at end. No blow back during shut-in.

Recovered 50 ft. of gas in pipe

Recovered 50 ft. of clean oil = .513 bbls. (Gravity: 28 @ 62°)

Recovered 7 ft. of oil cut mud = .07182 bbls. (Grind out: 20%-oil; 80%-mud) **RELEASE**

Recovered 57 ft. of TOTAL FLUID = .58482 bbls.

Recovered ft. of

Remarks FROM CONFIDENTIAL

Time Set Packer(s) 7:30 ~~XXM.~~ P.M. Time Started Off Bottom 10:30 ~~XXM.~~ P.M. Maximum Temperature 117°

Initial Hydrostatic Pressure (A) 1990 P.S.I.

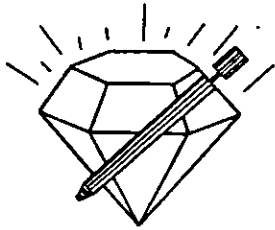
Initial Flow Period Minutes 30 (B) 27 P.S.I. to (C) 22 P.S.I.

Initial Closed In Period Minutes 45 (D) 994 P.S.I.

Final Flow Period Minutes 45 (E) 45 P.S.I. to (F) 45 P.S.I.

Final Closed In Period Minutes 60 (G) 981 P.S.I.

Final Hydrostatic Pressure (H) 1943 P.S.I.



DIAMOND TESTING
 P. O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

15-171-20482-00-00

Page 2 of 6 Pages

FLUID SAMPLE DATA

ORIGINAL

Company Slawson Exploration Co., Inc.

Lease & Well No. Gruver "P" No. 2

Date 4-17-95 Sec. 27 Twp. 17 S Range 31 W

Formation Test No. 1 Interval Tested From 3,946 ft. to 3,965 ft. Total Depth 3,965 ft.

Formation Lansing/Kansas City (35' Zone)

	MUD PIT	RECOVERY	
Viscosity	<u>44</u> CP	<u>--</u> CP	} TOO OILY TO CHECK.
Weight	<u>9.5</u>	<u>--</u>	
Water Loss	<u>12.0</u> CC	<u>--</u> CC	
PH Factor	<u>8.5</u>	<u>8.0</u>	

RESISTIVITY

CHLORIDE CONTENT

CONFIDENTIAL

Recovery Water	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud Filtrate	<u>1.00</u> @ <u>72</u> °F.	<u>5,500</u> ppm
Mud Pit Sample	<u>1.50</u> @ <u>70</u> °F.	<u>4,000</u> ppm
Mud Pit Sample Filtrate	<u>1.10</u> @ <u>74</u> °F.	<u>5,000</u> ppm

Sample Taken By Roger D. Friedly

Witness By Richard A. Robba

Remarks Pit filtrate triton dish chlorides were 3,500 Ppm.
Recovery filtrate triton dish chlorides were 3,200 Ppm.

15-171-20482-00-00

DIAMOND TESTING
CALCULATION OF FORMATION CHARACTERISTICS
FROM DST DATA

FOR: SLAWSON EXPLORATION CO., INC.
LEASE: #2 GRUVER "P" DST #1
LOCATION: 27-17S-31W FORMATION: LKC 35'
COUNTY: SCOTT, KS ELEVATION: 2930 KB
GAUGE DEPTH: 3962 DATUM: -1032

*****TEST PARAMETERS*****

TEST INTERVAL: 3946 - 3965 POROSITY FRACTION: .14
INTERVAL TESTED: 19 VISCOSITY: 1.0 CP
EST PAY: 3 OIL GRAVITY: 28 @60 DEG.
TIME INTERVAL: 33 - 45 - 45 - 60
INITIAL FLOW PRESS: 27.5- 20.9 TOTAL FT RECOVERY: 57 FT
FINAL FLOW PRESS: 55.1- 35.2 D.C. CAPACITY: 0.00000
SHUT-IN PRESS(I-F): 989.2- 972.8 W.P. CAPACITY: 0.00000
D.C. LENGTH: 0 FT
W.P. LENGTH: 0 FT
BOTTOM HOLE TEMP.: 117 DEG F D.P. CAPACITY: 0.01026
HOLE SIZE: 7.875 BBLs RECOVERY: 0.58456

*****EXTRAPOLATED PRESSURE*****

EXTRAPOLATED INITIAL SHUT-IN PRESSURE (PSI): 1050
SLOPE (PSI-CYCLE): 243 POINTS USED: 13

EXTRAPOLATED FINAL SHUT-IN PRESSURE (PSI): 1041
SLOPE (PSI-CYCLE): 192 POINTS USED: 12

*****CALCULATIONS*****

PRODUCTION POTENTIAL (B/D) : 10.79
TRANSMISSIBILITY (MD-FT/CP) : 9.14
FLOW CAPACITY (MD.-FT.) : 9.14
EFFECTIVE PERMEABILITY (MD) : 3.05
PRODUCTIVITY INDEX (B/D/PSI) : 0.0106
DAMAGE RATIO : 0.959
SKIN FACTOR (S) : 1.7
PRESSURE DROP DUE TO SKIN (PSI) : 277.5
APPROXIMATE RADIUS OF INVESTIGATION (FT) : 15.4
DRAWDOWN FACTOR (%) : 0.857
POTENTIOMETRIC SURFACE (FT) : 1382.1

04-17-1995 SLAWSON EXPLORATION CO., INC.

#2 GROVER "P"
INITIAL & FINAL SHUT-IN

INITIAL

FINAL

DST #1

+

⋈

F 849

⋈

I 807

1227

F 1050
F 1041

100

10
(t+dt/dt)

600

15-171-20482-00-00

15-171-20482-00-00

LEASE:#2 GRUVER "P"
DST #:1
INITIAL SHUT-IN

Page 5 of 6 Pages

=====

RECORDER NO: 13556 DEPTH: 3962 FT.
INITIAL FLOW TIME: T = 33 MIN.

DT(MIN)	T+DT/DT	LOG((T+DT)/DT)	PRESS(P SIG)
3	12.0000	1.079	707.5
6	6.5000	0.813	850.5
9	4.6667	0.669	884.3
12	3.7500	0.574	908.4
15	3.2000	0.505	928.0
18	2.8333	0.452	937.8
21	2.5714	0.410	947.7
24	2.3750	0.376	956.4
27	2.2222	0.347	964.1
30	2.1000	0.322	970.6
33	2.0000	0.301	975.0
36	1.9167	0.283	978.2
39	1.8462	0.266	982.6
42	1.7857	0.252	985.9
45	1.7333	0.239	989.2

LEASE:#2 GRUVER "P"
DST #:1
FINAL SHUT-IN

=====

RECORDER NO: 13556 DEPTH: 3962 FT.
TOTAL FLOW TIME: T = 78 MIN.

DT(MIN)	T+DT/DT	LOG((T+DT)/DT)	PRESS(P SIG)
3	27.0000	1.431	652.9
6	14.0000	1.146	806.8
9	9.6667	0.985	846.1
12	7.5000	0.875	872.3
15	6.2000	0.792	889.8
18	5.3333	0.727	900.7
21	4.7143	0.673	911.6
24	4.2500	0.628	921.5
27	3.8889	0.590	928.0
30	3.6000	0.556	934.6
33	3.3636	0.527	941.1
36	3.1667	0.501	947.7
39	3.0000	0.477	950.9
42	2.8571	0.456	955.3
45	2.7333	0.437	957.5
48	2.6250	0.419	961.9
51	2.5294	0.403	966.2
54	2.4444	0.388	968.4
57	2.3684	0.374	970.6
60	2.3000	0.362	972.8

04-17-1995

SLAWSON EXPLORATION CO., INC.
LEASE: #2 GRUVER "P"
INITIAL FLOW
DST #:1

=====
RECORDER NO: 13556 DEPTH: 3962 FT.
INITIAL FLOW TIME: T = 33 MIN.

DT(MIN)	PRESSURE(PSIG)
0	27.5
3	19.8
6	16.5
9	17.6
12	17.6
15	17.6
18	17.6
21	17.6
24	17.6
27	18.7
30	18.7
33	20.9

ORIGINAL

04-17-1995

SLAWSON EXPLORATION CO., INC.
LEASE: #2 GRUVER "P"
FINAL FLOW
DST #:1

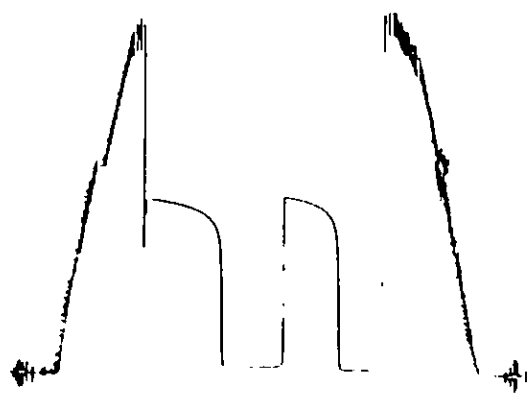
CONFIDENTIAL

=====
RECORDER NO: 13556 DEPTH: 3962 FT.
FINAL FLOW TIME: T = 45 MIN.

DT(MIN)	PRESSURE(PSIG)
0	55.1
3	36.3
6	31.9
9	29.7
12	29.7
15	29.7
18	29.7
21	29.7
24	29.7
27	29.7
30	29.7
33	30.8
36	31.9
39	33.0
42	34.1
45	35.2

~~DST~~ # 1 Outside 1355L
 Clock 6913 LKC 35'

3946-3925
 LOC 3962



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1990	1987	PSI
(B) First Initial Flow Pressure.....	27	28	PSI
(C) First Final Flow Pressure	22	21	PSI
(D) Initial Closed-in Pressure	994	989	PSI
(E) Second Initial Flow Pressure	45	55	PSI
(F) Second Final Flow Pressure.....	45	35	PSI
(G) Final Closed-in Pressure.....	981	973	PSI
(H) Final Hydrostatic Mud	1943	1954	PSI