

ORIGINAL

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: WICHITA INDUSTRIAL - 4 Farmland

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 SIOW 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. _____

10/22/98 10/28/98 11/28/98
Spud Date Date Reached TD Completion Date

API NO. 15- 047-21436-0005
County EDWARDS
C SE NE Sec. 15 Twp. 26 Rge. 16 X E W
3300 Feet from (S)N (circle one) Line of Section
660 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 SCHULTZ Well # 1
Field Name WIL
Producing Formation KINDERHOOK
Elevation: Ground 2077 KB 2082
Total Depth 4500 PBTB 4452
Amount of Surface Pipe Set and Cemented at 456
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. 1, 3-11-99 v.c.
(Data must be collected from the Reserve Pit)
Chloride content 19620 ppm Fluid volume 180 bbls
Dewatering method used: Hauled offsite
Location of fluid disposal if hauled offsite: _____
Operator Name Pintail Petroleum, Inc.
Lease Name Barker License No. 5086
SW Quarter Sec. 28 Twp. 27 S Rng. 11 E/W
County PRATT Docket No. D-28,238

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 03/09/99

Subscribed and sworn to before me this 9th of March, 19 99.

Notary Public Diana L. Richecky

Date Commission Expires Jan 12, 2000

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)

DIANA L. RICHECKY
Notary Public - State of Kansas
My Appt. Expires 1/12/2000

RECEIVED
KANSAS CORP COM.
MAR 10 AM '99

3-10-1997

Operator Name Oil Producers, Inc. of Kansas SIDE TWO Lease Name SCHULTZ Well # 1
 Sec. 15 Twp. 26S Rge. 16 East West County EDWARDS

ORIGINAL

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 type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datums	<input checked="" 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	3776'	-1694'
Electric Log Run	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	BROWN LIME	3924'	-1842'
(Submit Copy)			LANSING KC	3938'	-2001'
List All E.Logs Run:			H ZONE	4083'	-2001'
GEOLOGICAL LOG, Gamma Ray			CHEROKEE	4392'	-2301'
Neutron/CCL log, Gamma Ray			KINDERHOOK SAND	4410'	-2328'
Correlation Cement Bond Log,			RTD	4500'	-2418'

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
SURFACEOR	12 3/4"	8 5/8"	28	456	60 40 POZ	260	2%gel, 3% cc
PRODUCTION	7 7/8"	4 1/2"	10.5#	4499	60 40 POZ	15	
					EA-2	140	gas stop/last 15

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	
		SEE ATTACHED INITIAL COMPLETION REPORT	same

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		2 3/8"	4412.66			

Date of First, Resumed Production, SWD or Inj.		Producing Method		X Flowing Pumping Gas Lift Other (Explain)			Gravity
11/28/98		Oil	Gas	Water	Bbls.	Gas-Oil Ratio	
Estimated Production		28bopd	150mcfpd	0	BWPD		

Disposition of Gas: Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled see above

(If vented, submit ACO-18.) Other (Specify) _____

RECEIVED
 KANSAS CORP
 JUN 10 11 11 AM '98

ORIGINAL

Attachment to ACO-1 on Schultz

Drilling Fluid Management:

hauled to Palimiter SWD

Operator: Oil Producers, Inc. of Kansas
D-20,983
SW 16-25S-16W
Pratt County, Ks.

RECEIVED
KANSAS CORP
MAY 19 4 11 PM '55

CUSTOMER COPY

ORIGINAL



HALLIBURTON

REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046 Corporate FIN 73-0271280

INVOICE

HALLIBURTON ENERGY SERVICES A Division of Halliburton Company

INVOICE NO.	DATE
460026	10/28/1991

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
SCHULTZ 1		EDWARDS		KS	SAME
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE	
PRATT		MALLARD DRILLING		SHOWN BELOW	
ACCT. NO.		CUSTOMER AGENT		VENDOR NO.	
646989		SHANE SUMMERS		COMPANY TRUCK	
				FILE NO.	
				4802	
				TICKET DATE	
				10/28/1991	

OIL PRODUCERS INC. OF KANSAS
 C/O MR. BRAD SIROKY
 1003 S. PEARL
 PRATT, KS 67124-8195

*SCHULTZ 1
 P.O. BOX 963
 PRATT, KS 67124
 316-672-5593*

DIRECT CORRESPONDENCE TO:

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - CEMENT PRODUCTION CASING					
000-117	MILEAGE CEMENTING ROUND TRIP	50 MI		3.65	182.50
		1 UNT			
000-119	MILEAGE FOR CREW	50 MI		2.15	N/C
		1 UNT			
001-016	CEMENTING CASING	4499 FT		2,181.00	2,181.00
		1 UNT			
018-315	MUD FLUSH	500 GAL		.80	400.00
018-303	CLAYFIX II, PER GAL	2 GAL		33.95	67.90
26	INSERT VALVE F. S. - 4 1/2"	1 EA		339.00	339.00
847.6316					
27	FILL-UP UNIT 4 1/2"-5"	1 EA		60.00	60.00
815.19113					
40	CENTRALIZER 4-1/2 X 7-7/8	6 EA		59.00	354.00
806.60004					
594	4 1/2" LATCH DOWN BAFFLE	1 EA		116.00	116.00
801.03734					
593	3-WIPER L-D PLUG - 4 1/2"	1 EA		184.00	184.00
801.0373					
504-308	CEMENT - STANDARD	140 SK		12.13	1,698.20
504-130	CEMENT - 50/50 POZMIX STANDARD	35 SK		8.23	288.05
507-918	GASSTOP	25 LB		41.30	1,032.50
507-775	HALAD-322	99 LB		7.70	762.30
509-968	SALT	1250 LB		.18	225.00
507-970	B-AIR 1, POWDER	35 LB		4.27	149.45
508-291	GILSONITE BULK	700 LB		.58	406.00
508-127	CAL SEAL 60	7 SK		28.00	196.00
500-207	BULK SERVICE CHARGE	217 CFT		1.66	360.22
500-306	MILEAGE CMTG MAT DEL OR RETURN	236.38 TMI		1.25	295.48

***** CONTINUED ON NEXT PAGE *****

AFFIX JOB TKT

ORDER NO. 10900

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest of any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

PAGE 1

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ORIGINAL

REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046
Corporate FIN 73-0271280



INVOICE

HALLIBURTON ENERGY SERVICES
A Division of Halliburton Company

INVOICE NO.	DATE
460026	10/28/1998

WELL/LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER		
SCHULTZ 1	EDWARDS	KS	SAME		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
PRATT	MALLARD DRILLING	SHOWN BELOW	10/28/1998		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
646989	SHANE SUMMERS			COMPANY TRUCK	48029

OIL PRODUCERS INC. OF KANSAS
C/O MR. BRAD SIROKY
1003 S. PEARL
PRATT, KS 67124-8195

DIRECT CORRESPONDENCE TO:

P.O. BOX 963
PRATT KS 67124
316-672-5593

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	JOB PURPOSE SUBTOTAL				9,297.60
	INVOICE SUBTOTAL				9,297.60
	DISCOUNT-(BID)				2,882.20-
	INVOICE BID AMOUNT				6,415.40
	*-KANSAS STATE SALES TAX				211.02
	*-PRATT COUNTY SALES TAX				43.06
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					86,669.48

AFFIX JOB TKT

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest of any unpaid balance from the date payable until paid at the highest lawful contract rate applicable; but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

ORDER NO. 10900



HALLIBURTON

HALLIBURTON ENERGY SERVICES

1906-Q

CHARGE TO: Oil Producers of KS Inc
 ADDRESS: 60 Brad Sinsky 1003, S Pearl
 CITY, STATE, ZIP CODE: Pratt KS 67124-8195

CUSTOMER COPY

TICKET

ORIGINAL No.

460026 - 6

PAGE 1 OF 2

1. SERVICE LOCATIONS Pratt KS	WELL/PROJECT NO. #1	LEASE Schultz	COUNTY/PARISH Edwards	STATE KS	CITY/OFFSHORE LOCATION	DATE 10/28/98	OWNER Same
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Mallard Drlg	RIG NAME/NO.	SHIPPED Via Howco	DELIVERED TO Loc	ORDER NO.	
3. WELL TYPE	WELL CATEGORY 02	WELL PERMIT NO.	JOB PURPOSE 035	WELL LOCATION Land	REFERRAL LOCATION		
INVOICE INSTRUCTIONS: API# 15-033-20973							

JOB PURPOSE	PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	C	QTY.	U/M	UNIT PRICE	AMOUNT
			LOC	ACCT	DF								
	000.117		1			MILEAGE 53387# RD TP	50	mi		1	ea	3.65	182.50
	000.119		1		100	Crew mileage 421269# RDTP	50	mi		1	ea	2.15	107.50
	001.016		1			Pump Charge 1 Trk	4499	ft		4	hrs	2181	2181
	018.315		1			mud flush	500	gal				.80	400
	018.313		1			Clay-Fix II	2	gal				33.95	67.90
	26	847.6316	1		?	Insert Valve Float Shoe	1	ea		4.5	in	339	339
	27	815.1913	1			Fill-up unit	1	ea				60	60
	40	806.60004	1			Centralizers S-4	6	ea		4.5	in	59	354
	594	801.03734	1			Latch Down Baffle	1	ea		"	"	116	116
	593	801.0373	1			Latch Down Plug	1	ea		"	"	184	184
			1			Bulk Tkt # 100488							5413.20

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

TYPE LOCK	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN			PAGE TOTAL
BEAN SIZE	TYPE OF EQUALIZING SUB.	CASING PRESSURE		FROM CONTINUATION PAGE(S)
DEPTH	TUBING SIZE	TUBING PRESSURE	WELL DEPTH	
SPACERS	TREE CONNECTION	TYPE VALVE		SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE

X Shane Summers
 DATE SIGNED: 10/27/98 TIME SIGNED: 3:00 P.M.
 do do not require IPC (Instrument Protection) Not offered

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) Shane Summers CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) X Shane Summers HALLIBURTON OPERATOR/ENGINEER David L Scott EMP # B94975 HALLIBURTON APPROVAL D L Scott

ORIGINAL

ORIGINAL



Halliburton Energy Services

DATE:10-27-1998

TIME:18:51:02

SERVICE TICKET: 460026

PRATT-25555

BULK TICKET ONLY: 100488

JOB PURPOSE:LONG STRING

COMPANY TRUCK::52530 DRIVER: O.MUNZ

CUSTOMER: OIL PRODUCERS OF KANSAS LEASE & WELL#:SCHULTZ #1

504-308	STANDARD CEMENT	140	SKS.	12.13	1698.20
504-130	POZMIX-A CEMENT	35	SKS.	8.23	288.05
507-918	GASSTOP	25	LBS.	41.30	1032.50
507-775	HALAD-322	99	LBS.	7.70	762.30
509-968	W/W SALT	1250	LBS.	0.18	225.00
507-970	D-AIR	35	LBS.	4.27	149.45
508-291	GILSONITE	700	LBS.	0.58	406.00
508-127	EA-2	7	SKS.	28.00	196.00

500-207	SERVICE CHARGES	217	CU FT	1.66	360.22
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500-306	WEIGHT: 18910	MILES: ²⁵ 54	TON MILES: ^{236.38} 510.57	1.25	638.21
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TOTAL BOOK PRICE OF BULK TICKET:

TOTAL 5117.72
~~295.48~~
638.21

RECEIVED
 10/28/98
 5155.93
 3473.20

500-225	RETURN SERVICE CHARGES	_____	CU FT	1.66	
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500-306	WEIGHT: _____	RETURN MILES: 54	TON MILES: _____	1.25	
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JOB SUMMARY

ORDER NO. 70006

TICKET # **460026** ORIGINAL
TICKET DATE **10/28/98**

REGION North America	NWA/COUNTRY Mid Cont	BDA / STATE KS	COUNTY Edwards
MBU ID / EMP # MDR0596 89475	EMPLOYEE NAME DL Scott	PSL DEPARTMENT stim	
LOCATION Pratt KS	COMPANY Oil Prod of KS Inc	CUSTOMER REP / PHONE Shan Summer's	
TICKET AMOUNT 9297.60	WELL TYPE 02	API / UWI # 15-033-20973	
WELL LOCATION Trousdale KS	DEPARTMENT 1mt	JOB PURPOSE CODE 035	
LEASE / WELL # Schultz #1	SEC / TWP / RNG 19-34-20		

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS
DL Scott 89475	50						
DL Scott 175314	50						
DL Scott 276508208	50						

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
421269	50						
53387	50						
4444-76103	50						

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug		
Head		
Packer		
Other		

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other	2 gal Clay-Fix II	
Other	100 Lbs MF-1	
Other	5 gal mortar	

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	10/27	10/27	10/28	10/28
TIME	1830	2130	0257	0334

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	u	10.5	4 1/2	KB	4499	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole			7 1/8	4499	4500	SHOTS/FT.
Perforations						
Perforations						
Perforations						

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
10/27	2 1/2	10/28	5 1/2	035 7 1/2 long string
TOTAL		TOTAL		

ORDERED	HYDRAULIC HORSEPOWER	
	Avail.	Used
TREATED	AVERAGE RATES IN BPM	
	Disp.	Overall
FEET	26.16	CEMENT LEFT IN PIPE
	Reason	Insert

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
Lead	10	50/50oz	B	2% Ge1	1.28	13.9
Tail	140	Std EA-2	B	5% Pol Seal, 25% D-ATR-1 5#/6:1/18% Salt, 75% Hialad-322, 5% Gasstop last 50SK's	1.45	15.2

Circulating _____	Displacement _____	Prelush: Gal - 20012	Type Clay-Fix II - m p
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI	Pad: BBI - Gal
Average _____	Frac Gradient _____	Treatment Gal - BBI	Disp: 200 Gal
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slurr Gal - BBI	
		Total Volume Gal - BBI	

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

JOB LOG

ORDER NO. 70006

TICKET #	TICKET DATE
BDA / STATE	COUNTY
PSL DEPARTMENT	
CUSTOMER REP / PHONE	
API / UWI #	
JOB PURPOSE CODE	

REGION North America	NWA/COUNTRY
MBU ID / EMP #	EMPLOYEE NAME
LOCATION	COMPANY
TICKET AMOUNT	WELL TYPE
WELL LOCATION	DEPARTMENT
LEASE / WELL #	SEC / TWP / RNG

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS

CHART NO. #	TIME	RATE (BPM)	VOLUME (Bbls)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1830							Called Out
	2030							On hoc w/Trk's Safety mtg
								Run Csg Cent 2, 4, 6, 8, 10, 12,
								Csg on Bottom Drop Ball & Circ w/Rig 30min
								Rig up Howco
	0257	6	20			✓	250	St 2% Clay Fix IT H ₂ O
	0300	6	12			✓	250	St mud flush
	0304	2	3			✓	250	H ₂ O Spacer
	0308	5 1/2	7			✓	300	St mixing Scavenger Cmt @ 12.5 ppg 25 sks
	0310	5 1/2				✓	300	St mixing Tail Cmt @ 13.2 ppg 140 sks Gasstop Last 50 sks
	0315	⊖	36.1			✓	⊖	Finish mixing Cmt
	0318	5	10					Close In & Wash Pump & line
								Release Plug
	0320	7.2				✓	100	St Disp w/H ₂ O
	0325	7.0	51.3			✓	280	Lifting Cmt
	0331	⊖	73.7			✓	325	2 Bbl's Past Disp Release & CK float OK
	0333	2.8	75.3			✓	1200	Plug Down & PST Test Csg
	0334					✓	⊖	Release psi float OK
								Plug RH & M.H. w/25 sks Lead Cmt
								Good Circ During Job
								Job Complete
								Thank You Scotty

ORIGINAL

MALLARD JV, Inc.
DRILLING CONTRACTORS

P. O. Box 1009
McPHERSON, KS 67460

316-241-4640

Drillers Log

OPERATOR: **Oil Producers, Inc. of Kansas**
P. O. Box 8647
Wichita, KS 67208

WELL: **Schultz #1**

API #: 15-047-21436-0000

COMMENCED: August 17, 1998

LOCATION: C SE NE
3300' FSL, 660' FEL
Section 15, Township 26 S, Range 16 W
Edwards County, KS

COMPLETED: August 27, 1998

TOTAL DEPTH: 5200'

ELEVATION: 2076' GL, 2081' KB

STATUS: Set Casing - Kinderhook Formation

SPUD: 6:50 pm 10/22/98

SIZE HOLE DRILLED: 12-1/4" x 466'

SURFACE CASING SIZE: 8-5/8" x 28# x 456' (11 jts.)

SET AT: 462'

CEMENT: 260 sacks 60/40 Pozmix, 3% gel, 2% cc

SIZE HOLE DRILLED: 7-7/8" x 4500' RTD

PRODUCTION CASING: 4-1/2" x 10.5# (110 jts.)

SET AT: 4499'

CEMENT: 10 sacks 60/40 Pozmix and 140 sacks EA-2

PD: 3:40 am 10/28/98

DRILL STEM TESTS: None

ELECTRIC LOG: None

RECEIVED
KANSAS COMPTON
OCT 29 10 A 11 55

ORIGINAL

OIL PRODUCERS INC., OF KS.
INITIAL COMPLETION REPORT

WELL - SCHULTZ #1

LEGAL - C-SE/NE OF 15-26s-16w IN EDWARDS CO. KS.

API# - 15-047-21,436

G.L. - 2073'

K.B. - 5' ABOVE G.L. @ 2078'

SURFACE CSN - 8 5/8" @ 463' WITH 260 SX.

RTD - 4500'

PRODUCTION CASING - 4 1/2", 10.5# @ 4499' WITH 140 SX EA-2

PBTD - 4439' (ELI 11/16/98), 4452' (BY TBG TALLY 11/24/98)

TOP OF CEMENT - 3654' WITH GOOD CEMENT BONDING.

PERFORATIONS - CHEROKEE-----4391'-4397' 2 SHOTS/FT. 11/16/98
 KINDERHOOK-----4410'-4430' 1 SHOT/FT. 11/16/98

ACID - 2000 GALS 7 1/2% DSFE WITH 45 BALL SEALERS @ 5 BPM - 500 psi

FRAC - 40,000 GALS DELTA-FRAC, 60,000# SAND @ 25 BPM - 1100 psi.

TUBING RAN - 15' MA, SN, 142 JTS. 2 3/8" TUBING (4412.66')

TUBING SET @ - 4435.81'

AVERAGE TBG JT. - 31.07'

PUMP RAN - 2" X 1 1/2" X 12' RWTC WITH 6' GAS ANCHOR.

RODS RAN - PUMP, 2', 175-3/4" INSPECTED RODS, 2', 1 1/4" X 16' POLISHED ROD.

PUMP SET @ - 4420.76'

PUMPING UNIT - CDR-114 LOW PROFILE, MODEL - 133-44, S.N. - 126, RATIO-29.541:1

MOTOR - 25 HP ELECTRIC MOTOR

TANK BATTERY - NATIONAL 4' X 20' HEATER TREATER
 10' X 12' 210 BBL STEEL STOCK TANK.

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KIOWA WELL SERVICE ON LOCATION, RIGGED UP D-D DERRICK.
 ELI WIRELINE ON LOCATION TO RUN GAMMA RAY, NEUTRON, CORRELATION, & SONIC CEMENT BOND LOG.

FOUND TOTAL DEPTH - 4439' (THIS IS 33' HIGH TO TOP OF INSERT @ 4472')

FOUND TOP OF CEMENT - 3654' WITH GOOD CEMENT BONDING ACROSS CHEROKEE & KINDERHOOK.

KIOWA SWABBED 4 1/2" CASING DOWN TO 4000' FROM SURFACE.

ELI RIGGED TO PERFORATE PROPOSED INTERVALS IN CHEROKEE AND KINDERHOOK.

PERFORATED KINDERHOOK - 4410'-4430' WITH 1 SHOT/FT. USING EXPENDABLE CSN GUN.

PERFORATED CHEROKEE-----4391'-4397' WITH 2 SHOT/FT. USING EXPENDABLE CSN GUN.

KIOWA SWABBED WELL DOWN TO TTL DEPTH 4439'.

1/2 HR. NATURAL TEST - RECOVERED NO FLUID OR GAS.

HALLIBURTON ON LOCATION TO ACIDIZE CHEROKEE AND KINDERHOOK PERFORATIONS WITH 2000 GALS 7 1/2% DSFE ACID AND 45 BALL SEALERS.

ACIDIZE CHEROKEE AND KINDERHOOK PERFORATIONS AS FOLLOWS:

PUMP 500 GALS 7 1/2% DSFE ACID.

PUMP 1500 GALS 7 1/2% DSFE ACID WITH 1 BALL/33 GALS.

LOAD HOLE WITH 22 BBLs FIELD BRINE.

PRESSURED TO 1650 psi, BROKE BACK.

DISPLACED 200 GALS ACID @ 3 BPM - 1100 psi TO 300 psi.

DISPLACED 300 GALS ACID @ 5 BPM - 500 psi TO 600 psi.

DISPLACED 1500 GALS ACID WITH BALLS @ 7 BPM - 600 psi TO 850 psi. GOOD BALL ACTION.

ISIP - 200 psi, VAC - < 1 MINUTE., TTL LOAD - 120 BBLs.

KIOWA RIGGED TO SWAB BACK ACID LOAD AND TEST CHEROKEE AND KINDERHOOK PERFORATIONS AFTER ACID

TEST CHEROKEE AND KINDERHOOK AFTER ACID AS FOLLOWS:

FOUND FLUID LEVEL @ 200' FROM SURFACE.

SWAB WELL DOWN, RECOVERED 82.36 BBLs, GOOD SHOW OF OIL & GAS.

SHUT DOWN FOR THE NIGHT.

11/17/98

SICP - 100 psi, FLUID LEVEL - 2800' FROM SURFACE, FREE OIL - 400', OVERNIGHT OIL% - 25%,
SBHP - CALCULATES 826 psi.

CONTINUE TESTING CHEROKEE AND KINDERHOOK AFTER ACID AS FOLLOWS:

SWAB WELL DOWN, RECOVERED 27 BBLs, GOOD SHOW OF GAS AND 4% OIL CUT.

1 HR. TEST - RECOVERED 2.90 BBLs, 48% OIL, SHOW GAS, NOT MEASURABLE.

1 HR. TEST - RECOVERED 1.74 BBLs, 50% OIL, SHOW GAS, NOT MEASURABLE.

1 HR. TEST - RECOVERED 1.74 BBLs, 60% OIL, SHOW GAS, NOT MEASURABLE.

1 HR. TEST - RECOVERED 1.74 BBLs, 70% OIL, SHOW GAS, NOT MEASURABLE.

1 HR. TEST - RECOVERED 1.16 BBLs, 78% OIL, SHOW GAS, NOT MEASURABLE.

HALLIBURTON ON LOCATION TO FRACTURE CHEROKEE AND KINDERHOOK PERFORATIONS WITH 40,000 GALS 25# DELTA FRAC GEL AND 56,000# SAND.

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11/17 CONT.FRACTURE CHEROKEE AND KINDERHOOK PERFORATIONS AS FOLLOWS:

PUMP 6000 GALS 25# DELTA FRAC GEL PAD @ 26 BPM - 1020 psi.
 PUMP 4000# 100 MESH SAND @ 1 PPG (4000 GALS) @ 26 BPM - 1020 psi.
 PUMP 5000 GALS 25# DELTA FRAC GEL PAD @ 26 BPM - 1250 psi
 PUMP 4000# 20/40 SAND @ 1 PPG (4000 GALS) @ 26 BPM - 1180 psi
 PUMP 6000# 20/40 SAND @ 2 PPG (3000 GALS) @ 26 BPM - 1130 psi
 PUMP 9000# 20/40 SAND @ 3 PPG (3000 GALS) @ 26 BPM - 1060 psi
 PUMP 8000# 12/20 SAND @ 2 PPG (4000 GALS) @ 26 BPM - 1220 psi
 PUMP 12000# 12/20 SAND @ 3 PPG (4000 GALS) @ 25 BPM - 1150 psi
 PUMP 12000# 12/20 SAND @ 4 PPG (3000 GALS) @ 25 BPM - 1075 psi
 PUMP 5000# 12/20 SAND @ 5 PPG (1000 GALS) @ 26 BPM - 1080 psi
 PUMP 3000 GALS FLUSH @ 25 BPM - 1370 psi

ISIP - 1000 psi, 5 MIN SIP - 828 psi, 10 MIN SIP - 727 psi, 15 MIN SIP - 658 psi.

TOTAL LOAD - 40,000 GALS (952 BBLS)

TOTAL SAND - 60,000# (19,000# 20/40, 37,000# 12/20, AND 4000# 100 MESH)

SHUT DOWN FOR THE NIGHT.

11/18/98

SICP - 0 psi, FLUID LEVEL - 1800' FROM SURFACE.

SWAB 4 1/2" CASING ALL DAY, APPROX 10 HRS. RECOVERED 187 BBLS FOR THE DAY.

FLUID LEVEL @ END OF DAY 2800'. RECOVERING SOME SAND.

SHUT DOWN FOR THE NIGHT.

11/19/98

SICP - 60 psi, FLUID LEVEL - 2300' FROM SURFACE, FREE OIL - 200', OVERNIGHT FILL OIL% - 9%

SBHP - CALCULATES 1043 psi, (THIS IS OPTIMISTIC)

CONTINUE TO SWAB TEST CHEROKEE AND KINDERHOOK AFTER FRAC AS FOLLOWS:

SWAB APPROX. 10 1/2 HRS FOR DAY. RECOVERED 197 BBLS FOR THE DAY.

FLUID LEVEL @ END OF DAY - 2800' FROM SURFACE.

OIL% @ END OF DAY - 20%, WITH GOOD SHOW OF GAS.

RECOVERING SOME FRAC SAND.

SHUT DOWN FOR THE NIGHT.

11/20/98

SICP - 200 psi, FLUID LEVEL - 2800' FROM SURFACE, FREE OIL - 1100', OVERNIGHT OIL% - 69%.

SBHP - CALCULATES 855 psi

CONTINUE TO SWAB TEST CHEROKEE AND KINDERHOOK AFTER FRAC AS FOLLOWS:

SWAB 8 HRS. RECOVERED 159.08 BBLS. WELL SWABBED DOWN.

1 HR. TEST - RECOVERED 15.00 BBLS, 31% OIL, TEST GAS @ 159 MCFPD.

1 HR. TEST - RECOVERED 13.92 BBLS, 30% OIL, TEST GAS @ 153 MCFPD.

NOTE: - WE HAVE RECOVERED 572 BBLS OF 952 BBL FRAC LOAD @ THIS POINT, 60% OF LOAD.

SHUT DOWN FOR THE WEEKEND.

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11/23/98

SICP - 560 psi.

BLEW WELL DOWN, WELL KICKED OFF FLOWING MIST OF OIL.

GREAT PLANS FLUID SERVICE ON LOCATION WITH WATER TRUCK. PUMPED 50 BBLs FIELD BRINE DOWN WELL TO KEEP WELL QUIET.

KS. FISHING TOOL ON LOCATION WITH 4 1/2" SAND PUMP.

KIOWA RIGGED UP SAND PUMP TO CLEAN OUT WELL BORE OF FRAC SAND AND BALL SEALERS.

RECOVERED SOME FRAC SAND AND PUMP STICKING DUE TO FLOATING SAND IN FLUID.

SHUT DOWN FOR THE NIGHT.

11/24/98

CONTINUE TO SAND PUMP. CLEANED OUT WELL BORE OF SAND AND BALL SEALERS.

RIG DOWN SAND PUMP. A&W SUPPLY ON LOCATION WITH USED TESTED AND DRIFTED 2 3/8"

TUBING AND INSPECTED RODS FROM OPIK STOCK.

KIOWA RIGGED TO RUN PRODUCTION TUBING.

RAN PRODUCTION TUBING AS FOLLOWS:

MUD ANCHOR X 2 3/8"	15.05'
SEATING NIPPLE X 2 3/8"	1.10'
142 JTS. USED TESTED AND DRIFTED 2 3/8"	4412.66'
K.B. (5' PLUS 2' BELOW G.L.)	7.00'
<u>TUBING SET @</u>	4435.81'
SEATING NIPPLE SET @	4420.76'

TAGGED TOTAL DEPTH (BY TUBING TALLY) @ 4451.81'. PICK UP & SET TUBING 16' OFF BOTTOM.

KIOWA RIGGED TO RUN BOTTOM HOLE PUMP AND 3/4" INSPECTED RODS.

RAN PUMP AND RODS AS FOLLOWS:

2" X 1 1/2" X 12' RWTC WITH 6' GAS ANCHOR	14.00'
2' X 3/4" ROD SUB	2.00'
175 - 3/4" INSPECTED RODS	4375.00'
2' X 3/4" ROD SUB	2.00'
1 1/4" X 16' POLISHED ROD	16.00'
<u>PUMP SET @</u>	4420.76'

CLAMPED RODS OFF. KIOWA WELL SERVICE RIGGED DOWN & MOVED OFF LOCATION.

JW TRUCKING AND STREMMEL OILFIELD ON LOCATION WITH TANK BATTERY AND PUMPING UNIT FROM BENSON LEASE.

DAKOTA DIRT ON LOCATION BUILT TANK BATTERY GRADE TO EAST OF WELL @ ROAD.

STREMMEL ASSEMBLED TANK BATTERY.

SET HEATER TREATER - NATIONAL 4' X 20' HEATER TREATER. (FROM BENSON LEASE)

SET OIL STOCK TANK — 10' X 12' 210 BBL STEEL STOCK TANK. (FROM BENSON LEASE)

WILL SET PUMPING UNIT. CDR-114 LOW PROFILE 114 WITH 25 HP ELECTRIC MOTOR ASAP.

WILL LAY 2" SCH-160 PVC LEAD LINE FROM WELL TO TANK BATTERY ASAP.

WILL LAY 2" SCH-160 PVC GAS LINE FROM TANK BATTERY TO WICHSER #1 WELL APPROX 1/2 TO WEST OF TANK BATTERY ASAP.

WILL INSTALL ELECTRICITY TO PUMPING UNIT AS SOON AS NINNESCAH RURAL ELECTRIC SETS METER.

NOTE: THIS WELL SHOULD PRODUCE APPROX 30 BOPD AND 150 MCFPD WHEN PRODUCTION IS ESTABLISHED. END OF REPORT.

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