

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

Operator: License # 31898
Name: CONLEY P. SMITH OPER. CO.
Address 1125 17th St., Suite 2360
City/State/Zip Denver, CO 80202

Purchaser: _____
Operator Contact Person: ROBERT P. VERNON
Phone (____) 303-296-1434

Contractor: Name: ABERCROMBIE RTD, INC.
License: 30684

Wellsite Geologist: _____

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 SEP 1 1996
____ Deepening _____ Re-perf. _____ Conv. to Inj/SWD
____ Plug Back _____ PBTD _____
____ Commingled _____ Docket No. _____
____ Dual Completion _____ Docket No. _____
____ Other (SWD or Inj?) _____ Docket No. _____
7/20/96 8/03/96 8/05/96
Spud Date Date Reached TD Completion Date

API NO. 15- 033-20,913
County COMANCHE COUNTY, KANSAS
Approx. W/2 SE-SE Sec. 18 Twp. 34S Rge. 17 XXW
660 Feet from SN (circle one) Line of Section
1200 Feet from EW (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)
Lease Name PLUMB THICKET Well # 18-16
Field Name Wildcat
Producing Formation _____
Elevation: Ground 1814' KB 1819'
Total Depth 6486 PBTD _____
Amount of Surface Pipe Set and Cemented at 705' Feet
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
(Data must be collected from the Reserve Pit) ALT 1 11-4-96
Dpw PSA

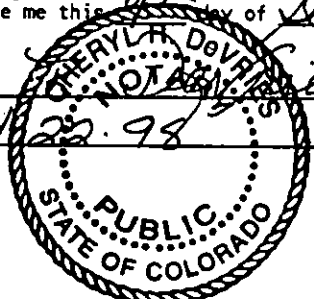
Ech chloride content 6000 ppm Fluid volume 2000 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite: NU

Operator Name _____
Lease Name OCT 6 1998 License No. _____
Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W _____
County _____ Docket No. _____
RELEASED
SEP 9
CONFIDENTIAL
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 Robert P. Vernon
Title V.P. & Opers Mgr. Date 9-9-96
Subscribed and sworn to before me this 9th day of September, 1996.
Notary Public Ceryll H. DeVries
Date Commission Expires 4-22-98



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)

Operator Name CONLEY P. SMITH OPER. CO.

Lease Name PLUMB THICKET

Well # 18-16

Sec. 18 Twp. 34S Rge. 17

East
 West

County COMANCHE COUNTY, KANSAS

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:

Name	Formation (Top), Depth and Datum	
	Top	Datum
Lansing	4490	2671
Miss	5194	3375
Viola	5771	3952
Lwr Oil Creek Sd	6152	4333
Arbuckle	6282	4463

CASING RECORD <input type="checkbox"/> New <input 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
CONDUCTOR	30"	20"		40'			
SURFACE	12 1/4"	8 5/8"	28#	705'	65/35 poz	250	6%gel, 3%cc
				followed by:	Class A	100	2%gel, 3%cc

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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		Amount and Kind of Material Used	Depth

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls. Gas-Oil Ratio Gravity

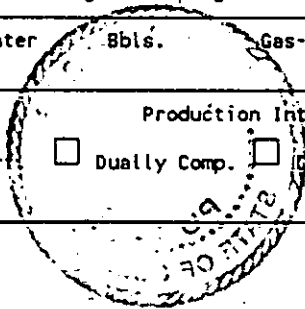
Disposition of Gas: **METHOD OF COMPLETION**

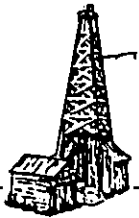
Vented Sold Used on Lease (If vented, submit ACO-18.)

Open Hole Perforated Other (Specify)

Production Interval

Dually Comp. Commingled





CONFIDENTIAL

ORIGINAL

**WHITEHALL EXPLORATION
CORPORATION**

Wellsite Geological Consulting & Complete Well Logging

RELEASED

OCT 6 1998

FROM CONFIDENTIAL

GEOLOGICAL ANALYSIS & WELL REPORT

15-033-20913

CONLEY P. SMITH OPERATING CO.

PLUMB THICKET No. 18-16

**440' FSL & 1,200' FEL
Section 18-Township 34 South-Range 17 West
Comanche County, Kansas**

**KCC
SEP 9
CONFIDENTIAL**

August 6, 1996

**RECEIVED
STATE CORPORATION COMMISSION**

SEP 11 1996

WICHITA FALLS, TEXAS

ORIGINAL

CONFIDENTIAL

TABLE OF CONTENTS

General Information	1
Daily Drilling Chronology	2
Mud Properties	3
Bit Record	4
Reference Wells	4
Deviation Record	4
Formation Tops	5
Drill Stem Tests	6
Zones of Interest	9
Well & Geologic Summary	13

NOV
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GENERAL WELL INFORMATION

Elevation: K.B. 1,819' G.L. 1,814'
(All measurements are from K.B.)

Field: Haas

Contractor: Abercrombie Drilling Inc.

Rig: No. 5

Casing: Surface: 17 joints of 8 5/8" set at 705'
Production: None

Total Depth: LTD 6,490' RTD 6,486'

Drilling Time: 4,000' to 6,486' RTD

Samples Saved: 4,000' to 6,486' RTD

Samples Examined: 4,000' to 6,486' RTD

Wellsite Geologist: Richard J. Hall
Certified Petroleum Geologist No. 4749
Wellsite Geological Consultant
Whitehall Exploration Corp.

Drilling Consultant: Art Lebolo-DRW Operating Co. (Denver Co.)

Mudlogging Unit: MBC 7

Mudlogging Geologist: Unmanned-monitored by wellsite geologist

DST Company/Tester: Trilobite Testing LLC. / Rod Steinbrink

Number of Tests: One (1) - Viola Formation

Mud Company/Engineer: Mud Co. Inc. / Gary Talbott

Mud Type: Chemical Drispac

Electric Logging Company: Schlumberger

Type Logs: •Platform Express Array Induction-SP
(Surf. csg.-6,482')
•Platform Express Compensated Neutron
Litho-Density (Surf. csg.-6,472)
•BHC Sonic (Surf. csg.-6,484')
•Platform Express Microlog (Surf. csg.-
6,472')

Total Depth Formation: Ordovician Arbuckle

Samples: Dry cut sent to Kansas Geological Survey-
Wichita Kansas

8/02	6,115'	203'	Drilling ahead; 1/4' rig repair, drilling, 45" rig repair, drilling.
8/03	6,476'	361'	Drilling ahead; reach 6,486' RTD @ 7:32 A.M. & cond. mud 2', 10 stand short trip, circ 2', trip out w/bit strapping pipe, rig up e. logs, run e. logs, rig down loggers, lay down drill collars, trip in hole open-ended with drill pipe.
8/04	6,486'	10'	Trip out w/ drill pipe setting cement plugs and lay down drill pipe, P & A @ 2:15 P.M., rig released @ 3:00 P.M.

MUD PROPERTIES

1996 DATE	DEPTH (FT)	TIME	WEIGHT (lbs)	VISCOSITY	FILTRATE	pH	YIELD POINT	CHLORIDES (p.p.m.)	LCM (lbs)
22-Jul	664		LOST	CIRC.					
22-Jul	715	10:00 AM						200	0
24-Jul	2,650	9:00 AM	9.8	32	N/C	7		72,000	Tr
25-Jul	3,345	8:45 AM	8.9	36	24	8	14	8,000	0
26-Jul	4,065	12:00 PM	9.1	35	72		14	12,000	0
27-Jul	4,590	9:00 AM	9	48	14.4	10.5	16	4,500	0
28-Jul	5,002	8:30 AM	9.1	45	9.6	11	12	5,000	0
29-Jul	5,390	9:30 AM	9.1	43	12.8	11	12	5,000	TR
30-Jul	5,666	2:00 AM	9.1	48	9.6	11	12	6,000	0
31-Jul	5,789	11:15 AM	9	50	8.8	9.5	20	6,000	4
1-Aug	5,912	5:24 AM	LOST	CIRC. -	160 BBL				
1-Aug	5,914	12:15 PM	8.9	46	8.8	9	14	6,000	7
1-Aug	5,940	2:30 PM	LOST	CIRC-	90 BBL				
2-Aug	6,122	7:15 AM	8.8	44	9.6	9.5	12	5,500	12
3-Aug	6,486	8:30 AM	8.8	45	8.8	9.5	12	6,000	8

N/C = No Control

REFERENCE WELLS

Reference Well "A":

George R. Jones
Haas No. 1
C-NE-NE
Section 19-T34S-R17W
Comanche County, Colorado
LTD: 5,847' RTD: 5,850'
Elevation: 1,845' KB
Date Drilled: January, 1980
TD Formation: Viola
Status: Mississippian Gas Producer

Reference Well "B":

Exploration and Development Inc.
Ehrlich No. 1
100' E-C-NE-SW
Section 20-T34S-R17W
Comanche County, Colorado
LTD: 6,428' RTD: 6,423'
Elevation: 1,846' KB
Date Drilled: December, 1967
TD Formation: Arbuckle
Status: Dry & Abandoned

Reference Well "C":

Mid Continent Energy
Ehrlich No. 1
NE-SW-NW
Section 20-T34S-R17W
Comanche County, Colorado
LTD: 6,230' RTD: 6,232'
Elevation: 1,837'
Date Drilled: May, 1979
TD Formation: Simpson Oil Creek Sandstone
Status: Dry hole

DEVIATION RECORD

<u>Survey</u> <u>Depth</u>	<u>Deviation</u> <u>(Degrees)</u>	<u>Method</u>
715'	3/4	dropped
1,289'	1/4	dropped
5,666'	1 1/4	dropped
6,486'	2	dropped

CORES

None

DAILY DRILLING CHRONOLOGY

<u>1996</u> <u>DATE</u>	<u>7:00 A.M.</u> <u>DEPTH</u>	<u>24 HOUR</u> <u>FOOTAGE</u>	<u>7:00 A.M. OPERATION; 24 HOUR ACTIVITY</u>
7/20	0	0	MIRU; mix mud, drill rate hole, spud @ 12:00 midnight 7/20, drilling, dev. survey, trip for bit, drilling.
7/21	290'	290'	Drilling ahead; circ., run survey and trip out w/bit, rig up and run 17 jts used 8 5/8" surf. csg., set @ 705' w/250 sx, cement didn't circ., plug down @ 7:00 P.M., one inch cement to surface w/200 sx, plug down @ 2:00 A.M. 7/22, WOC.
7/22	715'	425'	Rig up BOP & test; drill mouse hole, drilling, run survey, trip for plugged bit, drilling, trip for plugged bit, wash 200' to bottom, drilling.
7/23	1,680'	965'	Drilling ahead; pump repairs, drilling.
7/24	2,588'	908'	Drilling ahead; displace mud & mix mud, drilling.
7/25	3,265'	677'	Drilling ahead; jet rain water off pits, drilling.
7/26	3,935'	670'	Drilling ahead; pump rain water off pits, drilling, mix mud, drilling.
7/27	4,545'	610'	Drilling ahead; CFS @ 4,722', drilling.
7/28	4,974'	429'	Drilling ahead; CFS @ 5,083', drilling, 1 hr rig repair, drilling, 1/4' rig repair, drilling, CFS @ 5,223', drilling, CFS @ 5,254', drilling.
7/29	5,338'	364'	Drilling ahead; drilling.
7/30	5,625'	287'	Drilling ahead; trip for bit @ 5,666' strapping pipe, break circ., drilling, CFS @ 5,789' & W.O. orders (3 1/2'), trip out for DST #1.
7/31	5,789'	164'	Tripping out for DST; W.O. tester, make up test tool, trip in w/DST, run DST No. 1, trip out, lay down test tool, trip in w/bit breaking circ., drilling, lost circ. @ 5,912', pull 10 stands.
8/01	5,912'	123'	Lost circ-mix mud; pull 12 stands, mix mud, drilling, mix mud-losing volume while drilling, CFS @ 6,042', drilling.

FORMATION TOPS

FORMATION	SAMPLE TOPS	Plumb ELECTRIC LOG TOPS	Thicket LOG DATUM	Haas No. 1		Ehrlich-sw		Ehrlich-nw		DIFFERENCE TO		
				REFERENCE WELL "A"	REFERENCE WELL "B"	REFERENCE WELL "B"	REFERENCE WELL "C"	REFERENCE WELL "A"	REFERENCE WELL "B"	REFERENCE WELL "C"		
Wabaunsee	NC	3330	-1511	-1506	-1515	-1503	-5	4	-8			
Stotler	NC	3462	-1643	-1637	-1656	-1639	-6	13	-4			
Howard	NC	3590	-1771	-1766	-1792	-1776	-5	21	-5			
Topeka	NC	3798	-1979	-1983	-2051	-1991	4	72	12			
Elgin Sand	4120	4121	-2302	-2313	-2305	-2325	11	3	23			
Heebner	4244	4260	-2441	-2432	-2458	-2445	-9	17	4			
Lansing	4489	4490	-2671	-2661	-2692	-2674	-10	21	3			
Lansing "B"	4509	4507	-2688	-2687	-2713	-2693	-1	25	5			
Lansing "H"	4701	4702	-2883	-2884	-2911	-2889	1	28	6			
Lansing "J"	4781	4780	-2961	-2961	-2989	-2966	flat	28	5			
Stark Shale	4822	4822	-3003	-2994	-3030	-3006	-9	27	3			
B/Kansas City	4942	4946	-3127	-3114	-3149	-3127	-13	22	flat			
Marmaton	5032	5036	-3217	-3204	-3244	-3219	-13	27	2			
Pawnee	5073	5078	-3259	-3249	-3277	-3254	-10	18	-5			
Cherokee	5115	5112	-3293	-3283	-3318	-3294	-10	25	1			
Mississippian	5191	5194	-3375	-3376	-3398	-3375	1	23	flat			
Warsaw	5316	5304	-3485	-3513	-3505	-3501	28	20	16			
Kinderhook	5673	5676	-3857	-3860	-3904	-3855	3	47	-2			
Viola	5765	5770	-3951	-3941	-3998	-3947	-10	47	-4			
Up. Bromide	6012	6014	-4195	NDE	-4217	-4169	NDE	22	-26			
Lo. Bromide	6044	6055	-4236	NDE	-4258	-4203	NDE	22	-33			
Oil Creek Sd	6149	6152	-4333	NDE	-4358	-4307	NDE	25	-26			
Arbuckle	6286	6278	-4459	NDE	-4504	NDE	NDE	45	NDE			

NC = Not Called (before supervision started)
NDE = Not Deep Enough

TRILOBITE TESTING L.L.C.

OPERATOR : CONELY P. SMITH OPER. CO DATE 7-31-96
 WELL NAME: PLUM THICKET #1 KB 1819.00 ft TICKET NO: 9280 DST #1
 LOCATION : 18-34S-17W COMANCHE KS. GR 1814.00 ft FORMATION: VIOLA
 INTERVAL : 5743.00 To 5789.00 ft TD 5789.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	2341		13339			PF Fr. 1055 to 1110 hr
SI 60 Range(Psi)	4995.0	0.0	4025.0	0.0	0.0	IS Fr. 1110 to 1210 hr
SF 60 Clock(hrs)	ALP		12 HR			SF Fr. 1210 to 1310 hr
FS 125 Depth(ft)	5755.0	0.0	5784.0	0.0	0.0	FS Fr. 1310 to 1515 hr

	Field	1	2	3	4	
A. Init Hydro	2825.0	0.0	2830.0	0.0	0.0	T STARTED 0818 hr
B. First Flow	55.0	0.0	52.0	0.0	0.0	T ON BOTM 1051 hr
B1. Final Flow	76.0	0.0	52.0	0.0	0.0	T OPEN 1055 hr
C. In Shut-in	2085.0	0.0	2013.0	0.0	0.0	T PULLED 1515 hr
D. Init Flow	56.0	0.0	72.0	0.0	0.0	T OUT 1730 hr
E. Final Flow	152.0	0.0	104.0	0.0	0.0	
F. Fl Shut-in	2063.0	0.0	2023.0	0.0	0.0	
G. Final Hydro	2802.0	0.0	2820.0	0.0	0.0	
Inside/Outside	I		O			

TOOL DATA-----

Tool Wt.	1800.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	84000.00 lbs
Initial Str Wt	80000.00 lbs
Unseated Str Wt	80000.00 lbs
Bot Choke	0.75 in
Hole Size	8.88 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	360.00 ft
D.P. Length	5360.00 ft

RECOVERY

Tot Fluid 365.00 ft of 360.00 ft in DC and 5.00 ft in DP
 180.00 ft of SGM
 185.00 ft of GWCM 10% GAS 40% WATER 50% MUD
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of RW .20 @ 80 DEG. =
 SALINITY 32000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	CHEMICAL
Weight	9.00 lb/
Vis.	50.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop Y	50.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	140.00 F
Hole Condition	GOOD
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	ROD STEINBRINK
Co. Rep.	ART LEBOLO
Contr.	ABERCROMBIE
Rig #	5
Unit #	
Pump T.	

BLOW DESCRIPTION

IF; STRONG BLOW OFF BTM IN 30 SECS.
 STAYED CONSTANT
 ISI; BLED OFF BLOW - NO RETURN
 FF; STRONG BLOW OFF BTM IMMED. GTS IN
 10 MINS. GAUGED ON 1/2" ORIFICE
 10"/WTR = 19.9 MCF/DAY
 FSI; BLED OFF BLOW - NO RETURN

GAS IS FLAMMABLE BURNS ORANGE FLAME

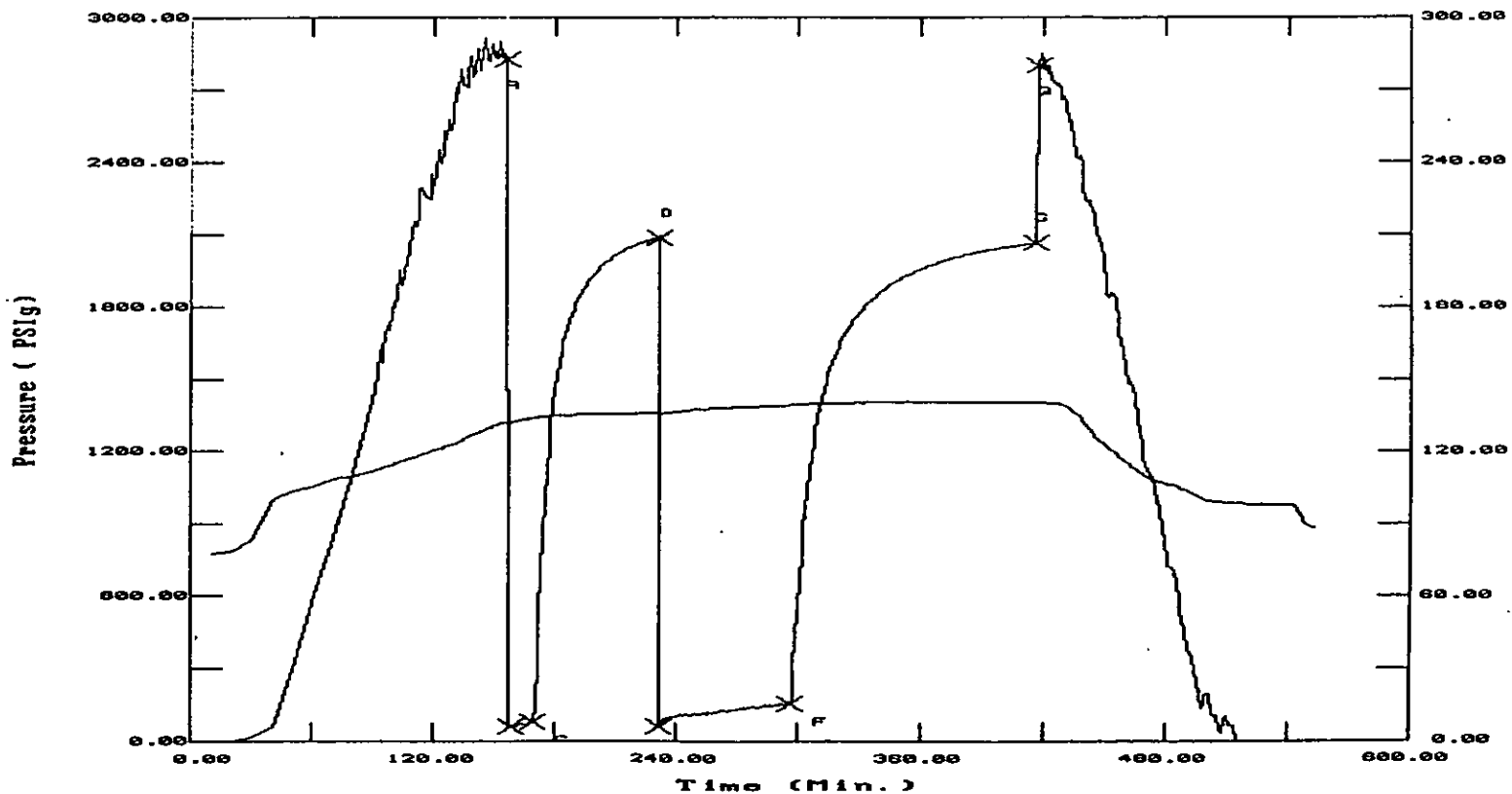
SAMPLES:
 SENT TO:

Test Successful: Y

TEST HISTORY

9288 DST #1 PLUM THICKET #1 CONELY P SMITH

	Flag Points	
	t (Min.)	P (PSig)
A:	0.00	2825.97
B:	0.00	55.96
C:	11.00	76.67
D:	62.00	2065.61
E:	0.00	56.07
F:	64.00	152.25
G:	121.00	2063.36
H:	0.00	2002.27



ZONES OF INTEREST

<u>Formation</u>	<u>Log Depth</u>	<u>Lithologic & Show Descriptions, Remarks</u>
Lansing "H" Zone	4,702'-4,712'	Limestone, buff-tan in part, fine-very fine crystalline, firm, slightly -very oolitic, slightly oomoldic in part, fair granular texture in part, fair-spotty good visual intercrystalline porosity, FAIR HYDROCARBON SHOW: very slight pale yellow fluorescence in part, occasional pieces with intermediate yellow fluorescence, no show of oil, no live cut, extremely faint blueish dried cut. A 155 unit total gas increase to 182 units total was recorded over this zone. Chromatograph hydrocarbon gas components were C1=152 units, C2=40 units, C3=9 units, and C4=2 units. This zone was not drill stem tested. Electric logs show this zone has crossplot porosities ranging from 11% to a maximum 18%, has good SP development, averages 9 ohms deep induction resistivity, and good mudcake and microlog development.
Pawnee	5,078'-5,085'	Limestone, tan-light brown, very fine-microcrystalline, dense/brittle, predominately no visual porosity with scattered poor intercrystalline porosity in part, POOR HYDROCARBON SHOW: occasional pieces with spotty brown oil stain, no show of free oil, rare dull yellow fluorescence in part, predominately no visual fluorescence, fair extremely pale gold slow live cut, fair-good dull yellow dried cut. A 17 unit total gas increase to 38 units total was recorded over this zone. No heavy hydrocarbon gas components were recorded over C3. Electric logs show this zone has: a moderately dirty gamma ray, crossplot porosities ranging from 9.5% to a maximum 14.5%, has poor SP development, 5 to 10 ohms deep induction resistivity, with a trace of microlog development.
Spergen	5,232'-5,260'	Limestone, off-white, light gray, fine-very fine crsytalline, hard, dolomitic in part, fine sucrosic texture, mottled in part, mostly poor to occasional intermediate intercrystalline porosity; FAIR HYDROCARBON SHOW: fair dull yellow fluorescence in part, rare pieces with minor dark brown stain in part (2% of sample), trace of free oil show, poor pale blueish live cut, poor-fair blue slightly yellow dried residual cut.

Limestone, as above, very fine-micro crystalline, subfriable to hard, scattered oolites, sublithic texture, chert inclusions, abundant off white chalky pieces, poor-fair intercrystalline porosity; FAIR HYDROCARBON SHOW: scattered brown stain in part, occasional slight show free oil, good uneven moderately bright yellow fluorescence in part, fair-good moderately fast yellow-blue live cut grading to milky cut, fair-good dull yellow dried residual cut.

This interval recorded several total gas and hotwire increases with the most significant occurring from 5,232 to 5,239 feet, recording a 148 unit total gas increases to 171 units, with chromatograph readings recorded as C1=71 units, C2=36 units, and C3=6 units. This zone was not drill stem tested. Electric logs show this zone has: maximum density porosities of 8-10%, neutron/density crossover gas effect, poor SP development, corresponding variable high deep induction resistivities, and no microlog development.

Warsaw

5,328'-5,372'

Limestone, buff-off white, fine-very fine crystalline, firm-hard, moderately-very chalky, poor chalky pin point porosity, FAIR HYDROCARBON SHOW: fair-good bright yellow fluorescence in part, slight scattered light brown oil stain in part, no show free oil, very slow slight dull yellow live cut, intermediate-good pale yellow dried cut. No total gas increase was observed over this zone. This zone was not drill stem tested. Electric logs show this zone has crossplot porosities averaging approximately 8-13%, has a maximum 20 ohms deep induction resistivity, and microlog development.

Viola

5,770'-5,777'

Limestone, dolomitic in part, light-medium gray, mottled appearance in part, moderately-very argillaceous, predominately very fine crystalline, firm-hard, moderately chalky pieces, poor-occasional fair intercrystalline porosity; POOR HYDROCARBON SHOW: no show of oil, fair dull yellow fluorescence, dull yellow slow live cut, fair-good pale yellow dried cut;

Dolomite, brown dark brown, rare very arenaceous pieces, firm, fair intercrystalline porosity, FAIR HYDROCARBON SHOW: no show of oil, spotty excellent bright gold fluorescence in part, slow

slight-intermediate blueish live cut, pale blue dried ring cut.

This zone recorded an excellent total/hotwire chromatograph gas increase. A total of 500+ units of total gas and C1 were recorded with 240 units of C2, 50 units of C3, 10 units of C4, and 5 units of C5. Electric logs show this zone has: maximum crossplot porosity of 9.5%, fair mudcake and good SP development, 7-9 ohms deep induction resistivity, and some microlog development.

This zone was drill stem tested and recovered gas to surface at 25.1 MCFGPD decreasing to 19.9 MCFGPD with fluid recovery of 365 feet consisting of 180 feet of slightly gassy mud and 185 feet of gassy water cut mud (10% gas, 40% water, 50% mud). Flow pressures recorded were 55-76 and 56-152 p.s.i. and shut in pressures were 2,085-2,063 p.s.i.

Upper Bromide 6,014'-6,036'

Limestone, dark brown, slightly dolomitic, micro crystalline, dense, no visual inter-crystalline porosity, GOOD HYDROCARBON SHOW: scattered black dead oil stain and rare brown uneven stain in part, one piece with good show free oil when crushed, no fluorescence, fair very slight yellow slow streaming cut, intermediate pale yellow dried cut. A 45 unit total gas increase to 90 units total was recorded over this zone, with chromatograph readings recorded as C1=78 units, C2=21 units, and C3=4 units. No heavy hydrocarbon gas components were recorded over C3.

Electric logs show this zone is tight and wet with crossplot porosities ranging from 1% to a maximum 12%, has poor SP development, 5 to 10 ohms deep induction resistivity, with no to a trace of microlog development.

Oil Creek 6,152'-6,120'

Sandstone, light gray clusters, clear individual grains, fine-very fine grained, rounded-subrounded, intermediate sorting, well cemented with dolomitic cement, abundant black carbonaceous inclusions, moderately shaley in part, fair-good intergranular porosity, VERY POOR HYDROCARBON SHOW: none to scattered fair dull yellow spotty fluorescence, no show free oil, no live cut, slight yellowish dried cut.

Arenaceous Dolomite, medium-dark gray, very fine crystalline, hard, very fine-fine grained arenaceous in part, moderately-very shaley in part, very poor

WELL AND GEOLOGIC SUMMARY

General

The Conley P. Smith Operating Co. Plumb Thicket No. 18-16 was drilled as a deeper zone development well within the Haas Field to test the pre-Mississippian Formations. This prospect was based on a 3-D seismic shoot, which indicated Ordovician Viola Formation thinning would result in Ordovician Simpson Group and Arbuckle Formation structural development. The Haas Field produces from the Mississippian Spergen Formation. The Plumb Thicket No. 18-16 is located west/southwest of an abandoned Mississippian Spregen gas producer located in the same quarter section and north of an active producing Mississippian Spergen well, the George Jones Haas No. 1 (NE-NE-Section 19-T34S-R17W), which is used as Reference Well "A" for this report.

The Plumb Thicket No. 18-16 is located approximately 3 1/2 miles south of the multi-pay Beals Field (Stotler, Lansing, Pawnee, Mississippian and Simpson Group Formations). The location of this test well is in the southeastern portion of Comanche County, Kansas, and is 13 miles south and 7 miles east of the town of Coldwater, Kansas.

The primary objectives in the Plumb Thicket No. 18-16 were the Ordovician aged Simpson Group-Upper Bromide, Lower Bromide, and Oil Creek Formations, and the Arbuckle Formation. Secondary objectives included the Pennsylvanian aged Lansing and Pawnee (Marmaton) Formations, Mississippian Spergen and Warsaw Formations and the Ordovician Viola Formation.

Abercrombie Drilling, Inc. Rig No. 5 spudded this well on July 20, 1996 at midnight and RTD was reached on August 3, 1996 at 7:32 A.M. The Plumb Thicket No. 18-16 was plugged and abandoned as a dry hole on August 4, 1996. Some lost circulation problems were encountered at 5,912' (lost 160 barrels) and 5,940' (lost 90 barrels).

Ten (10) foot wet and dry samples were caught by the rig's crews from 4,000 feet to 6,486 feet RTD. A single dry cut of the drilling samples were sent to the Kansas Geological Survey's Sample Library in Wichita, Kansas.

Hydrocarbon Shows

Numerous hydrocarbon sample shows and/or total hotwire gas increases were recorded during the drilling of this test well. The most significant sample shows with corresponding reservoir development were observed in the: Lansing "H" Zone, Mississippian Spergen, and Viola Formations. Other noteworthy minor sample shows occurred in the: Pawnee, Mississippian Warsaw, Upper Bromide, and Oil Creek Formations. No sample shows were observed in the Arbuckle Formation. Complete formation lithologic and hydrocarbon descriptions can be found under the "Zones of Interest" section of this report on pages 9-12.

Structure

As compared to the Reference Wells, the Plumb Thicket No. 18-16 ran structurally low through the Pennsylvanian Section (post-Mississippian formations) to Reference Well "A", and structurally high

porosity, INTERMEDIATE HYDROCARBON SHOW; fair uneven pale yellow fluorescence, scattered brown staining in part, no show free oil, good slow streaming cut grading to yellow dull milky cut, very good moderately bright dried cut.

A 80 unit total gas increase to 102 units total was recorded over this zone, with chromatograph readings recorded as C1=93 units, C2=40 units, C3=10 units, C4=2 units, and C5=1 unit. Electric logs show this zone has: crossplot porosities ranging from 9% to a maximum 13%, has fair SP development, 2 to 6 ohms deep induction resistivity, with no microlog development.

for the most part to Reference Wells "B" and "C". This test well ran flat to structurally high (flat to +23 feet) at the Mississippian Unconformity. The pre-Mississippian formations in this test well ran structurally mixed (-10 to +28 feet) compared to Reference Well "A", Structurally high to Reference Well "B" (+20 to +47 feet), and structurally mixed (-33 to +16 feet) as compared to Reference Well "C".

A geophysical seismic bust occurred over this prospect. Thickening occurred in the Viola Formation rather than thinning resulting in the Simpson Group and Arbuckle Formation being encountered structurally lower than anticipated. Complete Formation Tops and Structural Comparisons can be found on page 5 of this report.

Summary

Therefore, based on the low structural position in relation to the Reference Wells as a result of the 3-D seismic bust, the minor gas to surface recovery on Drill Stem Test No. 1 in the Viola Formation, the lack of other sample shows significant enough to require a drill stem test, and the lack of porosity development in the Mississippian and Arbuckle Formations and other primary and secondary objectives as confirmed through electric logs, it was decided the Plumb Thicket No. 18-16 be plugged and abandoned as a dry hole.

Respectfully Submitted,



Richard J. Hall
Certified Petroleum Geologist No. 4749
Wellsite Geological Consultant
Whitehall Exploration Corp.

CONLEY P. SMITH OPERATING COMPANY

ZONES OF INTEREST

" SHOWS "

APOLLO PROGRAM
PROSPECT: SE KANSAS (EAGLE)
WELL: PLUMB THICKET # 18 - 16
COMANCHE CO., KANSAS

ORIGINAL

15-033-20913

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Lansing "H"

INTERVAL		Drig. Rate (mpf)			Gas Units			Mud Wt.
From	To	Before	During	After	Before	During	After	(In / Out)
4701'	4710'	3	1/2	2	40u	182u	40u	9.1 / 9.1
Limestone - Buff to tan; very fine to fine crystalline; slightly oolitic; firm to hard; some fair to good intercrystalline porosity; some sucrosic texture; very spotty pale yellow fluorescence; very faint blueish dry cut; no live oil cut or stain. Fair Show (C1=152,C2=40,C3=9,C4=2)								

INTERVAL		Drig. Rate (mpf)			Gas Units			Mud Wt.
From	To	Before	During	After	Before	During	After	(In / Out)
5078'	5085'	4.5	2	3.5	20u	38u	22u	9.1 / 9.1
Limestone - very arenaceous; poor intercrystalline porosity; spotty brown oil stain; slight odor; rare dull yellow gold fluorescence, slow cut, trace calcite crystals Poor Show (C1=38,C2=14,C3=Trace)								

Mississippian (Spergen)

INTERVAL		Drig. Rate (mpf)			Gas Units			Mud Wt.
From	To	Before	During	After	Before	During	After	(In / Out)
5232'	5260'	4.5	2.5	4	27u	171u	45u	9.1 / 9.1
Limestone - off white, light gray, very fine to fine crystalline, hard, dolomitic, poor intergranular porosity; slight brown oil stain; fair dull yellow fluorescence, traces of free oil, poor pale blue cut, moderate odor; yellow gold dried residual cut; Fair Show (C1=71,C2=36,C3=6)								

Warsaw

INTERVAL		Drig. Rate (mpf)			Gas Units			Mud Wt.
From	To	Before	During	After	Before	During	After	(In / Out)
5328'	5372'	6	5	8	45u	50u	45u	9.1 / 9.1
Limestone - buff-off white, very fine to fine crystalline, hard to firm, some chalky; poor chalky pen point porosity, bright yellow dull yellow fluorescence; traces of brown oil stain, slow dull yellow live cut, pale yellow dry cut; Fair Show (Very Slight Gas Increase)								

INTERVAL		Drig. Rate (mpf)			Gas Units			Mud Wt.
From	To	Before	During	After	Before	During	After	(In / Out)
5770'	5777'	4	2	4	60u	500u	60u	9.1 / 9.1
Limestone - very fine crystalline, dolomitic in part with some chalky; arenaceous & calcitic; pale blue cut with dull yellow fluorescence; traces fair pale yellow cut; no stain of oil. Dolomite - brown, arenaceous, firm, fair intercrystalline porosity, bright gold fluorescence; Excellent Show (C1=500,C2=240,C3=50,C4=10,C5=5)								
DST # 1 : 5743' - 5789' Recovered 365' fluid = 180' Sli Gas Cut Mud & 185' Gas Cut Water and Mud; FSIP 2063psi; FHP 2802psi								

SEP 9
CONFIDENTIAL

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OCT 6 1998

FROM CONFIDENTIAL

CONLEY P. SMITH OPERATING CO.

POST DRILLING ANALYSIS

ORIGINAL

15-033-20913

APOLLO PROGRAM

DATE: 8/6/96 WELL TYPE: EXPLORATION DEVELOPMENT
 BY: Larry Goessman WELL STATUS P & A

OIL GAS
 RECEIVED STATE CORPORATION COMMISSION

SEP 1 1996

WELL PLUMB THICKET # 18 - 16 BASIN: _____
 PROSPECT (APOLLO) SE KANSAS (EAGLE) AFE # 22001
 LOCATION 440' FSL & 1200' FEL, (SE 1/4) Sec. 18, T 34 S R 17 W Spud Date 7/21/96
 COUNTY Comanche STATE: Kansas TD DATE 8/3/96
 TD DRILLER 6486 WIRELINE: 6490 Casing Point 8/3/96
 ELEV. GR 1814' KB 1819' Rig Release 8/5/96

(Rev. 1/1/96)

CONFIDENTIAL

APOLLO w/ BPO 100% OTHERS _____
 APOLLO w/ APO 100%

E - Log Tops	
Wabaunsee	3330' - 1511'
Stotler	3462' - 1843'
Howard	3590' - 1771'
Topeka	3798' - 1978'
Elgin Sd.	4121' - 2302'
Heebner	4262' - 2443'
Lansing	4490' - 2871'
Lansing "B"	4507' - 2888'
Lansing "H"	4702' - 2883'
Lansing "J"	4782' - 2983'
Stark Sh.	4823' - 3004'
Base Kansas City	4946' - 3127'
Marmaton	5035' - 3218'
Pawnee	5072' - 3253'
Cherokee	5112' - 3293'
Mississippian	5194' - 3375'
Warsaw	5318' - 3499'
Kinderhook	5686' - 3887'
Viola	5771' - 3952'
Upper Bromide	6025' - 4206'
Lower Bromide	6056' - 4237'
Lower Oil Creek Sd	8152' - 4333'
Arbuckle	6282' - 4483'
TD	6486'

RECOMMENDATIONS:

COST: AFE	Approved \$ <u>208,000</u>	COMPL \$ <u>0</u>	TOTAL \$ <u>208,000</u>
w/ mgmt. fee	Spent \$ <u>?</u>	COMPL \$ <u>0</u>	TOTAL \$ <u>?</u>
	Variance \$ <u>?</u>	COMPL \$ <u>0</u>	TOTAL \$ <u>?</u>

REMARKS out standing invoices pending

WELL EVALUATION:

Wireline Co. SCHLUMBERGER Wellsite Geologist Whitehall Exploration (Rick Hall)

Logs Run Compensated Neutron Litho - Density w/ Gamma ; Dual Induction w/ Micro & Gamma ; Borehole
Compensated Sonic w/ Gamma ; Micro Log w/ Gamma

Cores None

Tests DST # 1 (Viola) 5743' - 5789' ; (15 60 60 125) IH 2830psi, FH 2820psi; 1st Flow 52 to 52, 2nd Flow 72 to 104; ISIP 2013psi, FSIP 2023psi; Recovered 180' SGCM & 185' GWCM

Perforations None

Completion None

I. P. None Hook up Date : _____

DISCUSSION

Service Companies Performance: Excellent

Drilling & Completion Difficulties: Lost circulation in Viola Formation at 5912' and 5940'

Geological Critique (why drilled, what found, significance and Recommendation). Drilled to explore potential of seismic anomaly indicating four way closure in pre-Viola formations, with potential pay zones in the shallower horizons. All potential pay zone were lacking in porosity or had extremely high water saturation's. Electric Log tops indicate the structural position of the Pennsylvanian (post Mississippian formation) was low to prognosis due to a thickening of the Viola section. It is recommended to review seismic interruption in an attempt to find thinning in the Viola section while gaining structure in the Simpson Group and Arbuckle Formation.

RELEASED

OCT 6 1998

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15-033-20913

GEOLOGICAL PROGNOSIS

APOLLO PROGRAM

Conley P. Smith Operating Company

UP DATED 8-2-98

PROSPECT: SE Kansas (Eagle)								Correlation Well : George Jones Haas # 1				Correlation Well : Mid-Continent Energy Ehrlich # 1				Correlation Well : Exploration & Dev. Ehrlich # 1			
PROPOSED WELL: Plumb THICKET # 18 - 16								Location : (ne ne) Sec.19,T34S R17W KB : 1845'				Location : (ne sw nw) Sec.20,T34S R17W KB : 1837'				Location : (ne sw) Sec.20,T34S R17W KB : 1846'			
LOCATION: 440' FSL & 1200' FEL, (SE 1/4) Sec. 18, T 34 S R 17 W Comanche CO., KANSAS																			
EST GL : 1800 EST KB : 1805 Actual GL : 1814 Actual KB : 1819																			
EST. FORMATION TOPS	Depth	Subsea	Thickness	Sample Top	Subsea +/- To Prog	Thickness	Comment	Depth	Subsea +/- To Sample	Thickness	Comment	Depth	Subsea +/- To Sample	Thickness	Comment	Depth	Subsea +/- To Sample	Thickness	Comment
WABAUNSEE	3369'	-1550'	90'					3351'	-1506'	131'		3339'	-1503'	136'		3361'	-1515'	141'	
STOTLER	3459'	-1640'	45'					3482'	-1637'	129'		3476'	-1639'	137'		3502'	-1656'	136'	
HOWARD	3504'	-1685'	85'					3611'	-1766'	217'		3610'	-1776'	215'		3638'	-1792'	248'	
TOPEKA	3589'	-1770'	550'					3828'	-1883'	330'		3826'	-1991'	334'		3886'	-2040'	265'	
ELGIN SAND	4139'	-2320'	112'	4120'	-2301' / +19'	124'		4158'	-2313' / -12'	119'		4162'	-2325' / -24'	120'		4151'	-2305' / -4'	153'	
HEEBNER	4251'	-2432'	229'	4244'	-2425' / +7'	227'		4286'	-2432' / -7'	229'		4282'	-2445' / -20'	229'		4304'	-2458' / -33'	234'	
LANSING	4480'	-2661'	29'	4471'	-2652' / +9'	32'		4514'	-2681' / -9'	26'		4511'	-2674' / -2'	19'		4538'	-2692' / -40'	21'	
LANSING "B" Zone	4509'	-2690'	195'	4503'	-2684' / +6'	196'		4532'	-2687' / -3'	229'		4530'	-2693' / -9'	196'		4559'	-2713' / -29'	198'	
LANSING "H" Zone	4707'	-2885'	78'	4701'	-2882' / +2'	80'	V POOR SHOW	4729'	-2884' / -2'	77'		4726'	-2889' / -7'	77'		4757'	-2911' / -29'	78'	
LANSING "J" Zone	4782'	-2963'	31'	4781'	-2962' / +1'	41'		4806'	-2981' / +1'	33'		4803'	-2966' / -4'	40'		4835'	-2989' / -27'	41'	
STARK SHALE	4813'	-2994'	120'	4822'	-3003' / -9'	120'		4848'	-2994' / +9'	120'		4843'	-3006' / -3'	121'		4876'	-3030' / -27'	119'	
BASE KANSAS CITY	4933'	-3114'	90'	4992'	-3123' / -9'	90'		4968'	-3114' / +9'	90'		4964'	-3127' / -4'	92'		4995'	-3149' / -26'	95'	
MARMATON	5031'	-3204'	45'	5032'	-3213' / -9'	41'		5058'	-3204' / +9'	45'		5056'	-3218' / -6'	35'		5088'	-3244' / -31'	28'	
PAWNEE	5023'	-3249'	34'	5073'	-3254' / -5'	42'	POOR SHOW	5049'	-3249' / +5'	34'	(S) DST	5091'	-3254' / +0'	40'	(S) DST	5123'	-3277' / -23'	41'	
CHEROKEE	5102'	-3283'	93'	5115'	-3296' / -13'	76'		5137'	-3283' / +13'	93'		5131'	-3294' / +2'	81'	(S) DST	5164'	-3318' / -22'	80'	
MISSISSIPPIAN (m)	5195'	-3376'	131'	5191'	-3372' / +4'	121'	V POOR SHOW	5230'	-3376' / -4'	137'	(S) DST	5212'	-3375' / -3'	126'	(S) DST	5244'	-3398' / -26'	107'	(S) DST
WARSAW	5326'	-3507'	353'	5316'	-3497' / +10'	357'		5358'	-3513' / -16'	347'		5338'	-3501' / -4'	354'	(S) DST	5351'	-3505' / -8'	399'	(S) DST
KINDERHOOK	5679'	-3860'	81'	5673'	-3854' / +6'	92'		5714'	-3860' / -6'	81'		5692'	-3855' / -1'	92'		5750'	-3904' / -50'	94'	
VIOLA (m)	5760'	-3941'	209'	5765'	-3945' / -4'	247'	DST # 1	5795'	-3941' / +4'			5784'	-3947' / -1'	222'		5844'	-3998' / -52'	219'	
(SIMPSON GROUP)								(SIMPSON GROUP)				(SIMPSON GROUP)				(SIMPSON GROUP)			
UPPER BROMIDE DOLOMITE	5969'	-4150'	40'	6012'	-4193' / -43'	32'		TD 5850'				6006'	-4169' / +24'	34'		6063'	-4217' / -24'	41'	
LOWER BROMIDE SAND	6009'	-4190'	100'	6044'	-4225' / -35'	105'						6040'	-4203' / +22'	104'		6104'	-4258' / -33'	100'	(S) DST
LOWER OIL CREEK SAND	6109'	-4290'	145'	6149'	-4330' / -40'	137'		Completed in Miss 5250' - 5254'				6144'	-4307' / +23'			6204'	-4358' / -28'	146'	
ARBUCKLE (m)	6259'	-4435'		6286'	-4467' / -32'			443 mcf/gpd				TD 6230'				6350'	-4504' / -37'		
EST TD	6454'	-4635'						SICP 1674 psi SITP 1670 psi				P & A 5/10/79				TD 6432'			
ACTUAL DRILLERS TD	6486'	-4667'																	
								DST # 1 5743' - 5789' = 46' (15 60 60 120)											
								Rec. 365' Fluid = 180' SGCM & 185' GWCM											
								IH 2825 psi Flow 55-76 FSI 2085psi											
								FH 2802 psi Flow 58-152 FSI 2083psi											

COMMENT: (m) = Geological horizons mapped; (#) = Oil or Gas Show
 Stottar Sand produces at Beals field, look at these formations closely, (needs closure on nose or structure to produce). ELGIN sand produces in Barber county OKLOHAMA.
 Pawnee formation may be wet in lower part of formation therefore drill top 10' and circulate up to possible DST. Produces in Provery Flats approx. 7 Mi. away, also produces at Yellowstone.
 Viola possible no trap will leak out, lower Zone produces at Yellowstone, Lower Oil Creek expected production in Sam Gary discovery.

EXCEL FORMS GEO PROG PLUMB.XLS

RELEASED

OCT 6 1998

SEP 9
CONFIDENTIAL

FROM CONFIDENTIAL

ORIGINAL

ALLIED CEMENTING CO., INC. 6167

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

CONFIDENTIAL

ORIGINAL
SERVICE POINT:

med. Lodge KS
15-033-20913 7-25-96

DATE <u>7-21-96</u>	SEC. <u>22</u>	TWP. <u>22S</u>	RANGE <u>18W</u>	CALLED OUT <u>6:30 A.M.</u>	ON LOCATION <u>9:30 A.M.</u>	JOB START <u>6:00 P.M.</u>	JOB FINISH <u>2:30 A.M.</u>
LEASE <u>Thicket</u>			WELL# <u>1</u>	LOCATION <u>60+193 mile Post 1CS-1W-1S</u>		COUNTY <u>Comanche</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one) IE-1S-1W							

CONTRACTOR <u>Abercrombie RTO</u>	OWNER <u>Conley P. Smith</u>
TYPE OF JOB <u>Surface Csg.</u>	CEMENT
HOLE SIZE <u>12 1/4</u> ID. <u>7 1/8</u>	
CASING SIZE <u>8 5/8 x 28"</u> DEPTH <u>714</u>	AMOUNT ORDERED <u>2500 lbs. Class A 65/35/6</u>
TUBING SIZE _____ DEPTH _____	<u>3 1/2" Cal 1 1/2 + 1/4" Flk-Seal 1000 lbs. Class A</u>
DRILL PIPE <u>4 1/2 x hole</u> DEPTH <u>715</u>	<u>3 1/2" Cal 1 1/2 + 2 1/2" Gel 1000 lbs. Class A 2 1/2" x 1 1/2" Gel</u>
TOOL _____ DEPTH _____	<u>1000 lbs. Class A + 3 1/2" Gel</u>
PRES. MAX <u>300</u> MINIMUM <u>100</u>	COMMON _____ @ _____
MEAS. LINE _____ SHOE JOINT <u>36.27</u>	POZMIX _____ @ _____
CEMENT LEFT IN CSG. _____	GEL _____ @ _____
PERFS. _____	CHLORIDE _____ @ _____

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Larry Drelling</u>	
# <u>265</u>	HELPER <u>Justin Hart</u>	
BULK TRUCK		
# <u>257</u>	DRIVER <u>John Kelley</u>	
BULK TRUCK		
# <u>242</u>	DRIVER <u>James Holt</u>	

RECEIVED
STATE CORPORATION COMMISSION

SEP 1 1996

HANDLING _____ @ _____
MILEAGE _____ @ _____

RELEASED
OCT 6 1998

REMARKS: FROM CONFIDENTIAL SERVICE

<p><u>Mix + Pump 2500 lbs 65/35/6</u></p> <p><u>3 1/2" Cal 1 1/2 + 1/4" Flk-Seal 1000 lbs. Class A</u></p> <p><u>3 1/2" Cal 1 1/2 + 2 1/2" Gel Cement In Release</u></p> <p><u>Pump Displac + Pump Mfg 435420</u></p> <p><u>Pump Plug loss Returns Cement</u></p> <p><u>Did not Circ wait on Cement - Fall Back</u></p> <p><u>Cement 1000 lbs. Class A 2 1/2" x 1 1/2" Gel</u></p> <p><u>Cement Line to Surface - Ran 150' of 1"</u></p> <p><u>Cement Fall Back 40' w/ Cement. Cement w/ 1000 lbs. Class A + 3 1/2" Gel.</u></p>	<p>DEPTH OF JOB <u>714'</u></p> <p>PUMP TRUCK CHARGE _____</p> <p>EXTRA FOOTAGE _____ @ _____</p> <p>MILEAGE _____ @ _____</p> <p>PLUG Rubber <u>8 5/8</u> @ _____</p> <p>_____ @ _____</p> <p>_____ @ _____</p> <p style="text-align: right;">TOTAL _____</p>
--	--

CHARGE TO: Abercrombie RTO

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

Baffle Plate _____	@ _____
1-Centerizer _____	@ _____
1-Basket _____	@ _____
_____	@ _____
_____	@ _____
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 W.C. Craig

ALLIED CEMENTING CO., INC.

4106

BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT: MEDICINE LODGE

8-4-96 SEC. 18 TWP. 34 RANGE 17w CALLED OUT 8:00 PM ON LOCATION 1:45 AM JOB START 5:45 AM JOB FINISH 2:00 PM
 RUMB LEASE TICKET WELL # 1 LOCATION OLD WATER, 1/4, 4E, 1S, 23E 24 COUNTY COMANCHE STATE KANSAS
 OLD OR NEW (Circle one)

CONTRACTOR APERCROWBIE #5 OWNER CONLEY P. SMITH OPER. Co.
 TYPE OF JOB ROTARY AUG CEMENT
 HOLE SIZE 7 7/8" T.D. 6426'
 CASING SIZE 3 1/2" DEPTH 714'
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2" 16.6# DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOIN RELEASED
 CEMENT LEFT IN CSG.
 PERFS. OCT 6 1998

CONFIDENTIAL

AMOUNT ORDERED 175 sv 60:40:6

COMMON	<u>105</u>	@	<u>6.10</u>	<u>640.50</u>
POZMIX	<u>70</u>	@	<u>3.15</u>	<u>220.50</u>
GEL	<u>9</u>	@	<u>9.50</u>	<u>85.50</u>
CHLORIDE		@		

EQUIPMENT FROM CONFIDENTIAL

PUMP TRUCK CEMENTER K. FURNARDOT
 # 353-365 HELPER C. BALDINE
 BULK TRUCK DRIVER J. HOLT
 BULK TRUCK DRIVER

HANDLING	<u>175</u>	@	<u>1.05</u>	<u>183.75</u>
MILEAGE	<u>175 x 65</u>		<u>04</u>	<u>485.00</u>

RECEIVED STATE CORPORATION COMMISSION

TOTAL \$1,602.25

SEP 11 1996

REMARKS:

- 50 sv @ 62.80'
- 50 sv @ 755'
- 40 sv @ 350'
- 10 sv @ 40'
- 15 sv - RAINOLE
- 10 sv - MOUSEHOLE

SERVICE

DEPTH OF JOB	<u>6280'</u>			
PUMP TRUCK CHARGE				<u>1,794.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>65</u>	@	<u>2.95</u>	<u>191.75</u>
PLUG <u>3 1/2" DEJ HOLE</u>		@	<u>22.00</u>	<u>22.00</u>

TOTAL \$1,602.25

CHARGE TO: CONLEY P. SMITH OPER Co
 STREET 1125 17th St, SUITE #2260
 CITY DENVER STATE COLO. ZIP 80202

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 \$ 3187.50
 DISCOUNT \$ 478.13 IF PAID IN 30 DAYS
 NET \$ 2709.37

SIGNATURE [Signature]