

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

Operator: License # 31088

Name: COLT RESOURCES CORPORATION

Address 16701 Greenspoint Park Drive, #225

City/State/Zip Houston, TX 77060

Purchaser: Farmland/Western Resources

Operator Contact Person: Ed Childers

Phone ( 281 ) 876-1209

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Harold Trapp

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SMD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Reentry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Deepening  Re-perf.  Conv. to Inj/SMD  
 Plug Back  PBTD  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SMD or Inj?)  Docket No. \_\_\_\_\_

5-9-97 5-16-97 7-24-97  
 Spud Date Date Reached TD Completion Date

API No. 15- 077-213240000

County Harper

SW - SW - SW - Sec. 3 Twp. 31S Rge. 19 <sup>E</sup> <sub>W</sub>

670 Feet from S (circle one) Line of Section

330 Feet from E (circle one) Line of Section

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

Lease Name Wingate B Well # 1

Field Name Spivey-Grabs

Producing Formation Mississippi Chat

Elevation: Ground 1707' KB 1715'

Total Depth 4650' PBTD \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 296' 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 ALT 1 2-11-98  
 (Data must be collected from the Reserve Pit)

Chloride content 40,000 ppm Fluid volume 500 bbls

Dewatering method used trucked/evaporated

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name COLT RESOURCES CORPORATION

Lease Name Dickenson SWD #1 License No. 31088

SE Quarter Sec. 8 Twp. 31 S Rng. 8 <sup>E</sup> <sub>W</sub>

County Kingman Docket No. 55216C

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.

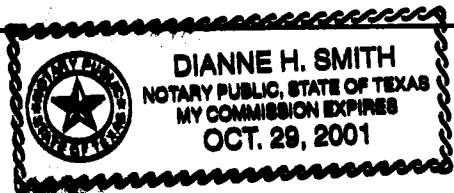
Signature Ed Childers

Title Division Engineer Date 12/05/97

Subscribed and sworn to before me this 5th day of December, 19 97.

Notary Public Dianne H. Smith

Date Commission Expires \_\_\_\_\_



K.C.C. OFFICE USE ONLY

F  Letter of Confidentiality Attached  
 C  Wireline Log Received  
 C  Geologist Report Received

Distribution

KCC  SMD/Rep  NGPA  
 KGS  Plug  Other  
 (Specify)

Operator Name COLT RESOURCES CORPORATION Lease Name WINGATE B Well # 1  
 Sec. 3 Twp. 31S Rge. 9  East  West  
 County Harper

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log Formation (Top), Depth and Datums <input checked="" type="checkbox"/> Sample <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Datum</th> </tr> </thead> <tbody> <tr> <td>Heebner</td> <td>3524</td> <td>(-1809)</td> </tr> <tr> <td>Lansing</td> <td>3730</td> <td>(-2015)</td> </tr> <tr> <td>Base Kansas City</td> <td>4253</td> <td>(-2538)</td> </tr> <tr> <td>Cherokee Sh.</td> <td>4388</td> <td>(-2673)</td> </tr> <tr> <td>Top Miss. Chat</td> <td>4450</td> <td>(-2735)</td> </tr> <tr> <td>Base Miss. Chat</td> <td>4522</td> <td>(-2807)</td> </tr> </tbody> </table>	Name	Top	Datum	Heebner	3524	(-1809)	Lansing	3730	(-2015)	Base Kansas City	4253	(-2538)	Cherokee Sh.	4388	(-2673)	Top Miss. Chat	4450	(-2735)	Base Miss. Chat	4522	(-2807)
Name	Top		Datum																				
Heebner	3524		(-1809)																				
Lansing	3730		(-2015)																				
Base Kansas City	4253	(-2538)																					
Cherokee Sh.	4388	(-2673)																					
Top Miss. Chat	4450	(-2735)																					
Base Miss. Chat	4522	(-2807)																					
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																						
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																						
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																						

List All E.Logs Run:  
 DIL, Microresistivity & CNL/CDL/Micro DST

CASING RECORD <input checked="" 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
Surface	12-1/4"	8-5/8"	24#	296	Class A	250	3% CaCl
Production	7-7/8"	5-1/2"	14#	4645	Class A	150	

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth	
		2	4449-4513
		Frac w/ 48,000 gal Delta	
		Frac 63,500# 12/20 Sand	

TUBING RECORD	Size 2-3/8"	Set At 4568	Packer At N/A	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
9/4/97				
Estimated Production Per 24 Hours	Oil 1 Bbls.	Gas 70 Mcf	Water 0 Bbls.	Gas-Oil Ratio 70,000 Gravity

Disposition of Gas:  Vented  Sold  Used on Lease (if vented, submit ACO-18.)

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled 4449-4513

Production Interval: 4449-4513

Other (Specify) \_\_\_\_\_



**JN Exploration & Production  
Colt Resources Corporation**

16701 Greenspoint Park Drive, Suite 225  
Houston, Texas 77060  
(281) 876-1209  
FAX (281) 876-1255  
E-mail: jnhouston@main.com

Gulf Coast Division

December 5, 1997

Kansas Corporation Commission  
200 Colorado Derby Building  
Wichita, Kansas 67202

Re: Wingate B #1 Well, API 077-213240000  
Spivey-Grabs Field  
Harper County, Kansas

Gentlemen:

Enclosed please find Form ACO-1 in triplicate with attachments on each of the wells listed above.  
The attachments are as follows:

DIL, Microresistivity & CNL/CDL/Micro, DST, and 2 cementing reports

Please contact the undersigned if any further information is required.

Thank you for your assistance.

Sincerely,

COLT RESOURCES CORPORATION

Dianne H. Smith  
Engineering Assistant

Enclosure

COMPANY <b>OXY USA INC</b>		DATE <b>5-7-97</b>
CONTRACTOR <b>DUKE DRILLING #2</b>		SEC, TWN, RNG <b>3-31S-9W</b>
LEASE <b>WINGATE "B"</b>	WELL NO. <b>1</b>	COUNTY <b>HARPER</b>
DIRECTIONS <b>ZENDA-SOUTH TO KEYSTONE CHURCH- .9WEST-NORTH INTO</b>		MILEAGE <b>90RT</b> <del>25 RT</del> <b>BULK-15 RT</b>

**ORIGINAL**

SURFACE X	INTER.	L. STRING	LINER	PLUG BACK	PTA
SQUEEZE		ACID	OTHER		
CASING SIZE <b>8 5/8</b>	THREAD <b>8RD</b>	TUBING SIZE	PLUG CONT <b>X</b>	SWAGE <b>X</b>	ROT HEAD
NUMBER AND TYPE TRUCKS WANTED <b>PUMP TRUCK AND BULK</b>					TOP PLUG <b>WOODEN</b>
REMARKS <b>+/-280'</b>					BOTTOM PLUG
					HOLE SIZE <b>12.25"</b>

# OF SACKS <b>250</b>	TYPE <b>STANDARD</b>	ADDITIVES <b>3% C.C, 1/4# FLOCELE</b>
# OF SACKS	TYPE	ADDITIVES
# OF SACKS	TYPE	ADDITIVES
# OF SACKS	TYPE	ADDITIVES
# OF SACKS	TYPE	ADDITIVES
# OF SACKS	TYPE	ADDITIVES

SPACER	QUANTITY	TYPE	REMARKS
OTHER	QUANTITY	TYPE	REMARKS

REMARKS

TYPE JOB	TOOL			
CASING SIZE	WEIGHT	GRADE	PKR DEPTH	MUD WT
SIZE AND TYPE DRILL PIPE OR TUBING		TUBING TESTER	JARS	
WIRELINE SETTING TOOL		STINGER	MECHANICAL SETTING TOOL	
SWIVEL		SQUEEZE MANIFOLD	OTHER	

CASING SIZE <b>8 5/8"</b>	CASING WEIGHT <b>24#</b>	THREAD <b>8RD</b>
GUIDE SHOE <b>REGULAR</b>	FLOAT SHOE	FLT COLLAR
CENTRALIZE-NUMBER <b>1 EACH</b>	SIZE <b>8 5/8"</b>	TYPE <b>S-4</b>
WELL CLEANS-NUMBER	TYPE	DV TOOL
LIMIT CLAMPS	WELD-A <b>1 EACH</b>	OTHER

REMARKS

ORDERED BY <b>LANCE FELLHOELTER</b>	TIME OF CALL <b>1300 5/7</b>
CALL TAKEN BY <b>DON</b>	TIME READY <b>W/C 5/9</b>
OPERATOR OR DRIVER CALLED	TIME

# ALLIED CEMENTING CO., INC. 6474

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

## ORIGINAL

SERVICE POINT:  
*Medicine Lodge*

DATE <u>5-16-97</u>	SEC. <u>3</u>	TWP. <u>31</u>	RANGE <u>9</u>	CALLED OUT <u>2:00 pm</u>	ON LOCATION <u>4:00 pm</u>	JOB START <u>7:30 pm</u>	JOB FINISH <u>8:30 pm</u>
Wingate LEASE	WELL # <u>B# 1</u>		LOCATION <u>Keystone Church - 1/2 mi W/S</u>	COUNTY <u>Kingman</u>	STATE <u>KS</u>		

OLD OR (NEW) (Circle one)

CONTRACTOR Duke Rig 2

TYPE OF JOB Production

HOLE SIZE 7 7/8" T.D. 4650

CASING SIZE 5 1/2" DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 1100 MINIMUM 100

MEAS. LINE SHOE JOINT 42

CEMENT LEFT IN CSG. 42

PERFS.

OWNER Colt Resources Corp

CEMENT

AMOUNT ORDERED 150 sk ASC + 5# Kolsen  
25 sk 60:40:4

COMMON A 15	@ 6.10	91.50
POZMIX 10	@ 3.15	31.50
GEL 1	@ 9.50	9.50
CHLORIDE	@	
ASC 150	@ 7.85	1177.50
KOL-SEAL 750#	@ 38	285.00
MUD NEAN 500 bags	@ 75	375.00
VIAPRO 12 bags	@ 22.90	274.80
HANDLING 175	@ 1.05	183.75
MILEAGE 175 x .30	.04	210.00

### EQUIPMENT

PUMP TRUCK CEMENTER Carl Balding

# 265 HELPER Steve Winsor

BULK TRUCK DRIVER Randie Landwehr

# 301

BULK TRUCK DRIVER

TOTAL \$2638.5

### REMARKS:

Break circulation with rig  
Circulate 30 minutes with pipe  
on bottom, pump 1200 gal mud clean flush  
stop pump, pump 60:40:4 in Rat Hole  
pump 5x 60:40:4 in main hole, switch valves  
pump 150 sk ASC + KOL-SEAL, stop pump, switch  
valves wash pump + line, switch valves  
Disperse with 1/2" KOL water

### SERVICE

DEPTH OF JOB <u>4645</u>		
PUMP TRUCK CHARGE		1156.00
EXTRA FOOTAGE	@	
MILEAGE <u>30</u>	@ 2.85	85.50
PLUG TRP 5/2"	@ 50.00	50.00

TOTAL \$1291.5

CHARGE TO: Colt Resources Corp

STREET 16701 GREENPOINT PARK DR., #225

CITY Abuiston STATE TEXAS ZIP 77060

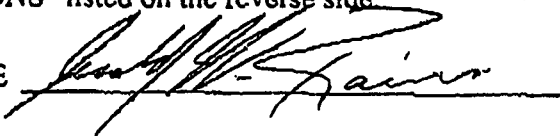
### FLOAT EQUIPMENT

6 - Centralizers	@ 56.00	336.00
1 Guide shoe	@ 168.00	168.00
1 AFV Insect	@ 263.00	263.00

TOTAL \$767.00

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



### TAX

TOTAL CHARGE \$4697.05

DISCOUNT \$704.55 IF PAID IN 30 DAY

NET \$3992.50

# ORIGINAL

WINGATE B #1  
SECTION 3, T31S-R9W  
HARPER COUNTY, KS

15-077-21324 -00-00

DST #1

Mississippian 4417-4545, 30-60-45-90

1<sup>st</sup> opening: weak blow increasing to bottom of bucket in 14 minutes

2<sup>nd</sup> opening: weak blow increasing to bottom of bucket in 22 minutes

Recovered 500' of GIP and 35' of mud

IFP 82 psi-107 psi  
ISIP 403 psi  
FFP 89-99 psi  
FSIP 502 psi & increasing  
HP 2165.9 psi  
BHT 118°F

15-077-21324-00-00  
SECTION 3, T31S-R9W  
HARPER COUNTY, KS

WF

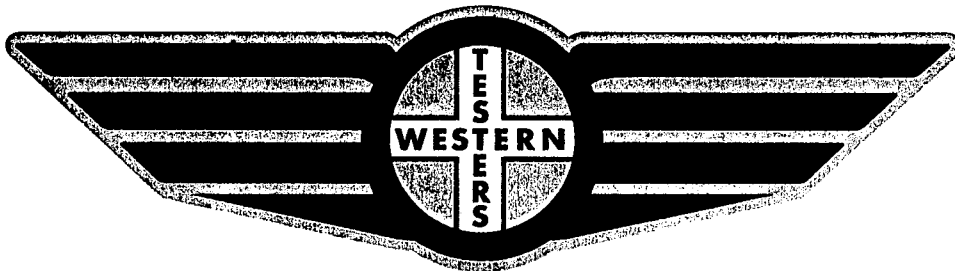
ORIGINAL

15-077-21324-00-00

GENERAL INFORMATION

DATE	: 5/15/97	TICKET	: 22499
CUSTOMER	: OXY USA INC	LEASE	: WINGATE B
WELL	: #1	GEOLOGIST	: VOSS
ELEVATION	: 1715 KB	FORMATION	: MISSISSIPPI
SECTION	: 3	TOWNSHIP	: 31S
RANGE	: 9W	STATE	: KS
GAUGE SN#	: 3026	CLOCK	: 12
	COUNTY: HARPER		
	RANGE : 4995		

# WESTERN TESTING CO., INC.



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

## FORMATION TEST REPORT

ORIGINAL

DST REPORT

GENERAL INFORMATION

DATE : 5/15/97  
CUSTOMER : OXY USA INC  
WELL : #1 TEST: 1  
ELEVATION: 1715 KB  
SECTION : 3  
RANGE : 9W COUNTY: HARPER  
GAUGE SN#: 3026 RANGE : 4995  
TICKET : 22499  
LEASE : WINGATE B  
GEOLOGIST: VOSS  
FORMATION: MISSISSIPPI  
TOWNSHIP : 31S  
STATE : KS  
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4417.00 ft TO: 4545.00 ft TVD: 4545.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 4419.0 ft 4520.0 ft  
TEMPERATURE: 118.0  
DRILL COLLAR LENGTH: 0.0 ft I.D.: 0.000 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 4392.0 ft I.D.: 3.800 in  
TEST TOOL LENGTH : 25.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 128.0 ft ANCHOR SIZE: 5.500 in  
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in  
MAIN HOLE SIZE : 7.875 in TOOL JOINT SIZE : 4.5XH  
PACKER DEPTH: 4412.0 ft SIZE: 6.630 in  
PACKER DEPTH: 4417.0 ft SIZE: 6.630 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : DUKE DRLG RIG 2  
MUD TYPE : CHEMICAL VISCOSITY : 48.00 cp  
WEIGHT : 9.100 ppg WATER LOSS: 10.400 cc  
CHLORIDES : 3200 ppm  
JARS-MAKE : WTC SERIAL NUMBER: 422  
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW BUILDING TO A  
STRONG BLOW IN 14 MINUTES. - BOTTOM OF BUCKET.  
FINAL FLOW PERIOD WEAK BLOW BUILDING TO A STRONG



DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

BLOW IN 20 MINUTES. - BOTTOM OF BUCKET.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	500 FT GAS ABOVE FLUID MUD
35.0	0.0	0.0	0.0	100.0	

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	75.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.4909 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.4909 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2238.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	82.00	107.00
INITIAL SHUT-IN	60.00		403.00
FINAL FLOW	45.00	89.00	99.00
FINAL SHUT-IN	90.00		501.00

FINAL HYDROSTATIC PRESSURE: 2165.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2238.20

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	30.00	82.20	107.90
INITIAL SHUT-IN	60.00		403.30
FINAL FLOW	45.00	89.10	99.00
FINAL SHUT-IN	90.00		501.90

FINAL HYDROSTATIC PRESSURE: 2165.90

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: OXY U.S.A. INC. WINGATE "B"#1 DST#1 TKT 22499  
 DATE: 05/15/97 TIME: 02:49:55

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	89.50	2238.2	0.0	108.49		
***** Start Flow 1	0.00	82.2	0.0	108.82		
	0.50	81.1	-1.1	108.84		
	1.00	80.9	-1.3	108.86		
	1.50	80.9	-1.3	108.86		
	2.00	81.2	-1	108.84		
	2.50	81.6	-0.6	108.84		
	3.00	82.4	0.2	108.82		
	3.50	83.4	1.2	108.81		
	4.00	83.6	1.4	108.81		
	4.50	84.5	2.3	108.80		
	5.00	84.4	2.2	108.79		
	5.50	84.7	2.5	108.77		
	6.00	84.6	2.4	108.77		
	6.50	84.7	2.5	108.77		
	7.00	84.9	2.7	108.76		
	7.50	85.1	2.9	108.77		
	8.00	85.1	2.9	108.76		
	8.50	85.2	3.0	108.77		
	9.00	85.4	3.2	108.77		
	9.50	85.9	3.6	108.77		
	10.00	86.2	4.0	108.78		
	10.50	85.8	3.6	108.78		
	11.00	86.1	3.8	108.78		
	11.50	86.0	3.8	108.80		
	12.00	86.0	3.8	108.81		
	12.50	86.3	4.0	108.81		
	13.00	86.4	4.2	108.82		
	13.50	86.7	4.5	108.83		
	14.00	86.7	4.5	108.84		
	14.50	86.7	4.5	108.85		
	15.00	86.7	4.5	108.87		
	15.50	86.7	4.5	108.88		
	16.00	86.9	4.7	108.89		
	16.50	86.9	4.7	108.89		
	17.00	87.0	4.8	108.91		
	17.50	87.1	4.9	108.93		
	18.00	87.3	5.0	108.94		
	18.50	87.2	4.9	108.96		
	19.00	87.7	5.5	108.98		
	19.50	87.4	5.2	109.00		
	20.00	88.0	5.7	109.01		
	20.50	87.4	5.2	109.03		
	21.00	87.6	5.4	109.05		
	21.50	87.6	5.3	109.06		
	22.00	87.9	5.6	109.08		
	22.50	88.4	6.2	109.09		
	23.00	88.2	5.9	109.11		
	23.50	89.4	7.2	109.14		
	24.00	87.6	5.4	109.15		
	24.50	87.9	5.7	109.17		

ALPINE SUBSURFACE ELECTRONICS' PROBE INCREMENTS LISTING

TEST: OXY U.S.A. INC. WINGATE "B"#1 DST#1 TKT 22499  
 DATE: 05/15/97 TIME: 02:49:55

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
25.00	88.1	5.9	109.19		
25.50	88.0	5.8	109.20		
26.00	88.0	5.8	109.23		
26.50	87.9	5.7	109.25		
27.00	88.3	6.1	109.26		
27.50	87.9	5.7	109.28		
28.00	88.4	6.2	109.31		
28.50	88.4	6.2	109.32		
29.00	88.5	6.2	109.34		
29.50	88.5	6.3	109.36		
30.00	88.4	6.2	109.38		
30.50	90.9	8.7	109.40		
31.00	89.9	7.7	109.42		
31.50	93.1	10.9	109.43		
32.00	95.8	13.6	109.46		
32.50	98.2	16.0	109.47		
33.00	100	17.7	109.49		
33.50	101.3	19.1	109.51		
34.00	102.5	20.3	109.53		
34.50	103.4	21.2	109.55		
35.00	104.2	22.0	109.58		
35.50	105.1	22.9	109.59		
36.00	105.6	23.4	109.61		
36.50	106.0	23.8	109.63		
37.00	106.4	24.2	109.65		
37.50	106.5	24.3	109.67		
38.00	106.6	24.4	109.69		
38.50	106.6	24.4	109.71		
39.00	106.6	24.4	109.73		
39.50	106.6	24.4	109.75		
40.00	106.6	24.4	109.77		
40.50	106.6	24.4	109.78		
41.00	106.7	24.5	109.81		
41.50	107.0	24.8	109.83		
42.00	107.5	25.2	109.85		
42.50	107.7	25.5	109.87		
43.00	107.9	25.6	109.90		
***** End Flow 1					
***** Start Shutin 1					
0.00	107.9	0.0	109.90	0.0000	0.012
0.50	108.0	0.1	109.91	87.0000	0.012
1.00	108.2	0.4	109.93	44.0000	0.012
1.50	108.3	0.4	109.95	29.6667	0.012
2.00	108.5	0.7	109.97	22.5000	0.012
2.50	108.7	0.8	109.99	18.2000	0.012
3.00	110.7	2.9	110.02	15.3333	0.012
3.50	113.6	5.8	110.04	13.2857	0.013
4.00	116.7	8.9	110.05	11.7500	0.014
4.50	120.5	12.7	110.07	10.5556	0.015
5.00	124.2	16.4	110.10	9.6000	0.015
5.50	127.9	20.0	110.12	8.8182	0.016
6.00	131.6	23.8	110.14	8.1667	0.017
6.50	135.1	27.2	110.16	7.6154	0.018

ALPINE SUBSURFACE ELECTRONICS' PROBE INCREMENTS LISTING  
 TEST: OXY U.S.A. INC. WINGATE "B"#1 DST#1 TKT 22499  
 DATE: 05/15/97 TIME: 02:49:55

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
7.00	138.3	30.5	110.17	7.1429	0.019
7.50	142.1	34.2	110.19	6.7333	0.020
8.00	145.4	37.6	110.21	6.3750	0.021
8.50	148.8	41.0	110.23	6.0588	0.022
9.00	152.2	44.4	110.28	5.7778	0.023
9.50	155.7	47.8	110.28	5.5263	0.024
10.00	159.0	51.1	110.30	5.3000	0.025
10.50	162.5	54.7	110.32	5.0952	0.026
11.00	165.8	58.0	110.34	4.9091	0.027
11.50	169.1	61.2	110.36	4.7391	0.029
12.00	172.5	64.6	110.38	4.5833	0.030
12.50	175.7	67.8	110.40	4.4400	0.031
13.00	178.8	70.9	110.43	4.3077	0.032
13.50	181.9	74.1	110.44	4.1852	0.033
14.00	185.1	77.2	110.46	4.0714	0.034
14.50	188.5	80.7	110.49	3.9655	0.036
15.00	191.9	84.0	110.51	3.8667	0.037
15.50	195.2	87.3	110.52	3.7742	0.038
16.00	198.4	90.5	110.55	3.6875	0.039
16.50	201.5	93.7	110.56	3.6061	0.041
17.00	204.7	96.8	110.58	3.5294	0.042
17.50	207.9	100.1	110.60	3.4571	0.043
18.00	211.0	103.2	110.64	3.3889	0.045
18.50	214.3	106.4	110.64	3.3243	0.046
19.00	217.6	109.7	110.67	3.2632	0.047
19.50	220.9	113.0	110.69	3.2051	0.049
20.00	224.1	116.3	110.71	3.1500	0.050
20.50	227.4	119.6	110.73	3.0976	0.052
21.00	230.8	122.9	110.75	3.0476	0.053
21.50	234.0	126.2	110.77	3.0000	0.055
22.00	237.2	129.4	110.79	2.9545	0.056
22.50	240.3	132.4	110.82	2.9111	0.058
23.00	243.4	135.5	110.83	2.8696	0.059
23.50	246.5	138.6	110.85	2.8298	0.061
24.00	249.6	141.8	110.87	2.7917	0.062
24.50	252.7	144.9	110.89	2.7551	0.064
25.00	255.9	148.1	110.92	2.7200	0.065
25.50	259.1	151.2	110.93	2.6863	0.067
26.00	262.2	154.3	110.96	2.6538	0.069
26.50	265.3	157.5	110.98	2.6226	0.070
27.00	268.4	160.5	111.00	2.5926	0.072
27.50	271.5	163.7	111.01	2.5636	0.074
28.00	274.6	166.8	111.04	2.5357	0.075
28.50	277.7	169.9	111.06	2.5088	0.077
29.00	280.7	172.9	111.07	2.4828	0.079
29.50	283.8	175.9	111.09	2.4576	0.081
30.00	286.8	179.0	111.11	2.4333	0.082
30.50	290.0	182.1	111.13	2.4098	0.084
31.00	293.1	185.2	111.15	2.3871	0.086
31.50	296.2	188.3	111.18	2.3651	0.088
32.00	299.3	191.5	111.18	2.3438	0.090

ALPINE SUBSURFACE ELECTRONICS' PROBE INCREMENTS LISTING

TEST: OXY U.S.A. INC. WINGATE "B"#1 DST#1 TKT 22499  
 DATE: 05/15/97 TIME: 02:49:55

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
32.50	302.3	194.5	111.21	2.3231	0.091
33.00	305.2	197.4	111.23	2.3030	0.093
33.50	308.4	200.5	111.25	2.2836	0.095
34.00	311.4	203.5	111.27	2.2647	0.097
34.50	314.3	206.5	111.29	2.2464	0.099
35.00	317.3	209.5	111.32	2.2286	0.101
35.50	320.4	212.6	111.33	2.2113	0.103
36.00	323.4	215.6	111.36	2.1944	0.105
36.50	326.3	218.5	111.38	2.1781	0.107
37.00	329.4	221.5	111.39	2.1622	0.108
37.50	332.2	224.3	111.40	2.1467	0.110
38.00	335.1	227.2	111.44	2.1316	0.112
38.50	338.1	230.3	111.46	2.1169	0.114
39.00	341.1	233.3	111.47	2.1026	0.116
39.50	344.0	236.2	111.49	2.0886	0.118
40.00	347.0	239.1	111.51	2.0750	0.120
40.50	349.9	242.0	111.53	2.0617	0.122
41.00	352.8	244.9	111.55	2.0488	0.124
41.50	355.6	247.7	111.57	2.0361	0.126
42.00	358.5	250.7	111.59	2.0238	0.129
42.50	361.3	253.5	111.61	2.0118	0.131
43.00	364.3	256.4	111.62	2.0000	0.133
43.50	367.1	259.2	111.64	1.9885	0.135
44.00	370.0	262.1	111.67	1.9773	0.137
44.50	372.8	264.9	111.68	1.9663	0.139
45.00	375.5	267.7	111.70	1.9556	0.141
45.50	378.4	270.5	111.72	1.9451	0.143
46.00	381.3	273.4	111.74	1.9348	0.145
46.50	383.9	276.1	111.76	1.9247	0.147
47.00	386.9	279.0	111.77	1.9149	0.150
47.50	389.7	281.8	111.81	1.9053	0.152
48.00	392.4	284.6	111.82	1.8958	0.154
48.50	395.1	287.3	111.84	1.8866	0.156
49.00	397.9	290.1	111.86	1.8776	0.158
49.50	400.7	292.8	111.88	1.8687	0.161
50.00	403.3	295.4	111.89	1.8600	0.163
***** End Shut-in 1					
***** Start Flow 2					
0.00	89.1	0.0	111.94		
0.50	88.9	-0.2	111.95		
1.00	89.4	0.3	111.97		
1.50	91.3	2.2	111.97		
2.00	90.6	1.5	112.00		
2.50	91.2	2.1	112.00		
3.00	92.1	3.0	112.02		
3.50	92.0	2.9	112.03		
4.00	93.9	4.8	112.05		
4.50	94.5	5.4	112.07		
5.00	91.9	2.9	112.07		
5.50	91.7	2.6	112.09		
6.00	92.7	3.6	112.10		
6.50	92.1	3.0	112.11		
7.00	94.6	5.5	112.14		

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING  
 TEST: OXY U.S.A. INC. WINGATE "B"#1 DST#1 TKT 22499  
 DATE: 05/15/97 TIME: 02:49:55  
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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
7.50	91.7	2.6	112.14		
8.00	93.0	3.9	112.17		
8.50	93.5	4.4	112.18		
9.00	92.8	3.7	112.19		
9.50	92.8	3.7	112.21		
10.00	92.5	3.5	112.23		
10.50	93.6	4.5	112.25		
11.00	93.3	4.2	112.26		
11.50	92.4	3.4	112.27		
12.00	94.1	5.0	112.30		
12.50	93.0	3.9	112.32		
13.00	92.4	3.3	112.33		
13.50	92.5	3.4	112.34		
14.00	92.4	3.3	112.35		
14.50	92.6	3.5	112.38		
15.00	92.2	3.1	112.39		
15.50	92.8	3.7	112.42		
16.00	92.1	3.1	112.42		
16.50	93.0	3.9	112.45		
17.00	92.3	3.2	112.47		
17.50	93.4	4.3	112.49		
18.00	93.1	4.0	112.50		
18.50	94.9	5.8	112.52		
19.00	92.6	3.5	112.54		
19.50	93.2	4.1	112.55		
20.00	93.8	4.7	112.57		
20.50	94.6	5.5	112.58		
21.00	93.3	4.2	112.59		
21.50	93.5	4.4	112.61		
22.00	93.2	4.1	112.63		
22.50	92.7	3.6	112.65		
23.00	93.0	3.9	112.67		
23.50	92.7	3.6	112.69		
24.00	92.9	3.8	112.70		
24.50	94.9	5.8	112.72		
25.00	93.2	4.1	112.73		
25.50	92.9	3.8	112.75		
26.00	93.3	4.2	112.77		
26.50	93.5	4.4	112.78		
27.00	93.8	4.7	112.80		
27.50	94.3	5.2	112.83		
28.00	93.8	4.7	112.85		
28.50	92.7	3.6	112.86		
29.00	93.0	3.9	112.87		
29.50	92.8	3.7	112.89		
30.00	93.2	4.1	112.91		
30.50	93.8	4.7	112.93		
31.00	93.7	4.6	112.94		
31.50	93.4	4.3	112.96		
32.00	93.3	4.2	112.97		
32.50	93.4	4.3	112.99		

ALPINE SUBSURFACE ELECTRONICS' PROBE INCREMENTS LISTING

TEST: OXY U.S.A. INC. WINGATE "B"#1 DST#1 TKT 22499

DATE: 05/15/97 TIME: 02:49:55

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	33.00	93.4	4.3	113.00		
	33.50	94.4	5.3	113.03		
	34.00	94.6	5.5	113.04		
	34.50	95.2	6.1	113.05		
	35.00	95.0	5.9	113.08		
	35.50	94.2	5.1	113.09		
	36.00	94.8	5.7	113.11		
	36.50	94.8	5.7	113.11		
	37.00	94.4	5.3	113.14		
	37.50	94.9	5.8	113.15		
	38.00	94.4	5.3	113.17		
	38.50	94.4	5.3	113.19		
	39.00	94.7	5.6	113.20		
	39.50	94.4	5.3	113.22		
	40.00	94.4	5.3	113.23		
	40.50	94.2	5.1	113.25		
	41.00	97.2	8.1	113.27		
	41.50	94.1	5.0	113.29		
	42.00	94.3	5.2	113.31		
	42.50	94.0	4.9	113.32		
	43.00	96.5	7.4	113.33		
***** End Flow 2	43.50	99.0	10	113.35		
***** Start Shutin 2	0.00	99.0	0.0	113.35	0.0000	0.01
	0.50	101.7	2.6	113.36	174.0000	0.010
	1.00	104.5	5.5	113.38	87.5000	0.011
	1.50	106.7	7.6	113.39	58.6667	0.011
	2.00	108.9	9.9	113.41	44.2500	0.012
	2.50	111.4	12.4	113.43	35.6000	0.012
	3.00	113.9	14.8	113.44	29.8333	0.013
	3.50	116.4	17.4	113.46	25.7143	0.014
	4.00	119.0	19.9	113.48	22.6250	0.014
	4.50	121.1	22.1	113.49	20.2222	0.015
	5.00	123.8	24.8	113.51	18.3000	0.015
	5.50	125.9	26.9	113.52	16.7273	0.016
	6.00	128.4	29.4	113.54	15.4167	0.016
	6.50	130.8	31.8	113.55	14.3077	0.017
	7.00	133.0	34.0	113.59	13.3571	0.018
	7.50	135.1	36.1	113.59	12.5333	0.018
	8.00	137.5	38.5	113.61	11.8125	0.019
	8.50	139.8	40.8	113.63	11.1765	0.020
	9.00	142.2	43.1	113.64	10.6111	0.020
	9.50	144.5	45.4	113.66	10.1053	0.021
	10.00	146.8	47.7	113.67	9.6500	0.022
	10.50	149.0	50.0	113.69	9.2381	0.022
	11.00	151.2	52.2	113.71	8.8636	0.023
	11.50	153.3	54.3	113.73	8.5217	0.024
	12.00	155.6	56.6	113.74	8.2083	0.024
	12.50	157.9	58.9	113.76	7.9200	0.025
	13.00	160.1	61.1	113.76	7.6538	0.026
	13.50	162.4	63.3	113.79	7.4074	0.026
	14.00	164.6	65.6	113.80	7.1786	0.027



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING  
 TEST: OXY U.S.A. INC. WINGATE "B"#1 DST#1 TKT 22499  
 DATE: 05/15/97 TIME: 02:49:55

Time	Pressure PSig	delta P PSig	P DEG F	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
14.50	166.9	67.9	113.82	113.82	6.9655	0.028
15.00	169.2	70.2	113.84	113.84	6.7667	0.029
15.50	171.5	72.5	113.85	113.85	6.5806	0.029
16.00	173.7	74.6	113.87	113.87	6.4062	0.030
16.50	176.0	76.9	113.89	113.89	6.2424	0.031
17.00	178.4	79.4	113.91	113.91	6.0882	0.032
17.50	180.5	81.5	113.91	113.91	5.9429	0.033
18.00	182.8	83.8	113.93	113.93	5.8056	0.033
18.50	185.1	86.1	113.94	113.94	5.6757	0.034
19.00	187.3	88.2	113.96	113.96	5.5526	0.035
19.50	189.7	90.7	113.98	113.98	5.4359	0.036
20.00	192.0	93.0	113.99	113.99	5.3250	0.037
20.50	194.3	95.3	114.01	114.01	5.2195	0.038
21.00	196.6	97.6	114.02	114.02	5.1190	0.039
21.50	198.8	99.7	114.04	114.04	5.0233	0.040
22.00	201.0	102.0	114.05	114.05	4.9318	0.040
22.50	203.2	104.2	114.06	114.06	4.8444	0.041
23.00	205.5	106.5	114.09	114.09	4.7609	0.042
23.50	207.8	108.8	114.10	114.10	4.6809	0.043
24.00	210.0	111.0	114.11	114.11	4.6042	0.044
24.50	212.3	113.3	114.13	114.13	4.5306	0.045
25.00	214.5	115.5	114.14	114.14	4.4600	0.046
25.50	216.6	117.6	114.16	114.16	4.3922	0.047
26.00	218.9	119.9	114.19	114.19	4.3269	0.048
26.50	221.1	122.1	114.20	114.20	4.2642	0.049
27.00	223.3	124.3	114.22	114.22	4.2037	0.050
27.50	225.5	126.5	114.23	114.23	4.1455	0.051
28.00	227.8	128.8	114.25	114.25	4.0893	0.052
28.50	230.0	131.0	114.26	114.26	4.0351	0.053
29.00	232.1	133.1	114.28	114.28	3.9828	0.054
29.50	234.3	135.3	114.30	114.30	3.9322	0.055
30.00	236.5	137.4	114.31	114.31	3.8833	0.056
30.50	238.8	139.8	114.32	114.32	3.8361	0.057
31.00	241.0	142.0	114.33	114.33	3.7903	0.058
31.50	243.2	144.1	114.35	114.35	3.7460	0.059
32.00	245.4	146.4	114.36	114.36	3.7031	0.060
32.50	247.6	148.6	114.38	114.38	3.6615	0.061
33.00	249.8	150.8	114.39	114.39	3.6212	0.062
33.50	252.0	153.0	114.41	114.41	3.5821	0.064
34.00	254.3	155.3	114.42	114.42	3.5441	0.065
34.50	256.5	157.4	114.44	114.44	3.5072	0.066
35.00	258.7	159.7	114.45	114.45	3.4714	0.067
35.50	260.8	161.8	114.47	114.47	3.4366	0.068
36.00	263.0	164.0	114.48	114.48	3.4028	0.069
36.50	265.2	166.1	114.49	114.49	3.3699	0.070
37.00	267.3	168.3	114.50	114.50	3.3378	0.071
37.50	269.6	170.6	114.52	114.52	3.3067	0.073
38.00	272.0	173.0	114.55	114.55	3.2763	0.074
38.50	274.2	175.2	114.55	114.55	3.2468	0.075
39.00	276.4	177.3	114.57	114.57	3.2179	0.076
39.50	278.5	179.5	114.59	114.59	3.1899	0.078

ALPINE SUBSURFACE ELECTRONICS' PROBE INCREMENTS LISTING

TEST: OXY U.S.A. INC. WINGATE "B"#1 DST#1 TKT 22499

DATE: 05/15/97 TIME: 02:49:55

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
40.00	280.7	181.6	114.60	3.1625	0.079
40.50	282.8	183.7	114.62	3.1358	0.080
41.00	285.0	185.9	114.62	3.1098	0.081
41.50	287.3	188.2	114.64	3.0843	0.083
42.00	289.4	190.4	114.66	3.0595	0.084
42.50	291.6	192.6	114.67	3.0353	0.085
43.00	293.8	194.7	114.69	3.0116	0.086
43.50	295.9	196.9	114.70	2.9885	0.088
44.00	298.2	199.2	114.72	2.9659	0.089
44.50	300.3	201.3	114.73	2.9438	0.090
45.00	302.5	203.4	114.76	2.9222	0.091
45.50	304.7	205.7	114.76	2.9011	0.093
46.00	307.0	207.9	114.77	2.8804	0.094
46.50	309.0	210.0	114.79	2.8602	0.095
47.00	311.2	212.2	114.81	2.8404	0.097
47.50	313.4	214.3	114.83	2.8211	0.098
48.00	315.5	216.5	114.84	2.8021	0.10
48.50	317.8	218.8	114.84	2.7835	0.101
49.00	319.9	220.9	114.86	2.7653	0.102
49.50	322.2	223.2	114.87	2.7475	0.104
50.00	324.4	225.4	114.89	2.7300	0.105
50.50	326.6	227.6	114.90	2.7129	0.107
51.00	328.7	229.7	114.91	2.6961	0.108
51.50	330.9	231.8	114.94	2.6796	0.109
52.00	333.1	234.0	114.95	2.6635	0.111
52.50	335.3	236.2	114.96	2.6476	0.112
53.00	337.4	238.4	114.98	2.6321	0.114
53.50	339.4	240.4	115.00	2.6168	0.115
54.00	341.5	242.5	115.00	2.6019	0.117
54.50	343.7	244.6	115.02	2.5872	0.118
55.00	345.8	246.7	115.04	2.5727	0.120
55.50	347.8	248.8	115.05	2.5586	0.121
56.00	350.0	251.0	115.06	2.5446	0.123
56.50	352.1	253.1	115.08	2.5310	0.124
57.00	354.3	255.3	115.09	2.5175	0.126
57.50	356.4	257.4	115.11	2.5043	0.127
58.00	358.6	259.6	115.12	2.4914	0.129
58.50	360.7	261.6	115.13	2.4786	0.130
59.00	362.8	263.7	115.15	2.4661	0.132
59.50	364.9	265.8	115.16	2.4538	0.133
60.00	367.0	268.0	115.17	2.4417	0.135
60.50	369.2	270.2	115.20	2.4298	0.136
61.00	371.3	272.3	115.21	2.4180	0.138
61.50	373.5	274.4	115.22	2.4065	0.139
62.00	375.6	276.5	115.24	2.3952	0.141
62.50	377.6	278.6	115.25	2.3840	0.143
63.00	379.6	280.5	115.26	2.3730	0.144
63.50	381.7	282.7	115.27	2.3622	0.146
64.00	383.8	284.8	115.30	2.3516	0.147
64.50	385.9	286.9	115.30	2.3411	0.149
65.00	388.0	289.0	115.31	2.3308	0.151

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING  
 TEST: OXY U.S.A. INC. WINGATE "B"#1 DST#1 TKT 22499  
 DATE: 05/15/97 TIME: 02:49:55

Time	Pressure PSI <sub>g</sub>	delta P PSI <sub>g</sub>	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
65.50	390.1	291.0	115.33	2.3206	0.152
66.00	392.1	293.1	115.34	2.3106	0.154
66.50	394.2	295.1	115.36	2.3008	0.155
67.00	396.3	297.2	115.37	2.2910	0.157
67.50	398.2	299.2	115.39	2.2815	0.159
68.00	400.2	301.2	115.40	2.2721	0.160
68.50	402.4	303.4	115.41	2.2628	0.162
69.00	404.4	305.4	115.42	2.2536	0.164
69.50	406.5	307.4	115.43	2.2446	0.165
70.00	408.6	309.6	115.44	2.2357	0.167
70.50	410.7	311.6	115.46	2.2270	0.169
71.00	412.7	313.7	115.47	2.2183	0.170
71.50	414.7	315.7	115.48	2.2098	0.172
72.00	416.7	317.6	115.49	2.2014	0.174
72.50	418.7	319.6	115.51	2.1931	0.175
73.00	420.7	321.6	115.52	2.1849	0.177
73.50	422.7	323.6	115.53	2.1769	0.179
74.00	424.7	325.6	115.55	2.1689	0.180
74.50	426.6	327.6	115.56	2.1611	0.182
75.00	428.5	329.5	115.57	2.1533	0.184
75.50	430.5	331.5	115.58	2.1457	0.185
76.00	432.5	333.4	115.60	2.1382	0.187
76.50	434.4	335.4	115.62	2.1307	0.189
77.00	436.4	337.3	115.63	2.1234	0.190
77.50	438.2	339.2	115.62	2.1161	0.192
78.00	440.2	341.2	115.65	2.1090	0.194
78.50	442.2	343.1	115.66	2.1019	0.196
79.00	444.2	345.1	115.68	2.0949	0.197
79.50	446.1	347.1	115.70	2.0881	0.199
80.00	448.1	349.0	115.70	2.0812	0.201
80.50	450.0	351.0	115.71	2.0745	0.202
81.00	452.0	352.9	115.73	2.0679	0.204
81.50	453.9	354.9	115.74	2.0613	0.206
82.00	455.8	356.7	115.75	2.0549	0.208
82.50	457.8	358.8	115.77	2.0485	0.210
83.00	459.6	360.6	115.78	2.0422	0.211
83.50	461.6	362.6	115.79	2.0359	0.213
84.00	463.5	364.5	115.80	2.0298	0.215
84.50	465.4	366.4	115.82	2.0237	0.217
85.00	467.4	368.3	115.83	2.0176	0.218
85.50	469.3	370.2	115.85	2.0117	0.220
86.00	471.2	372.1	115.86	2.0058	0.222
86.50	473.0	373.9	115.87	2.0000	0.224
87.00	474.9	375.8	115.87	1.9943	0.226
87.50	476.7	377.6	115.89	1.9886	0.227
88.00	478.6	379.5	115.91	1.9830	0.229
88.50	480.3	381.3	115.92	1.9774	0.231
89.00	482.2	383.2	115.93	1.9719	0.233
89.50	484.1	385.1	115.95	1.9665	0.234
90.00	486.0	386.9	115.95	1.9611	0.236
90.50	487.8	388.8	115.96	1.9558	0.238

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: OXY U.S.A. INC. WINGATE "B"#1 DST#1 TKT 22499

DATE: 05/15/97 TIME: 02:49:55

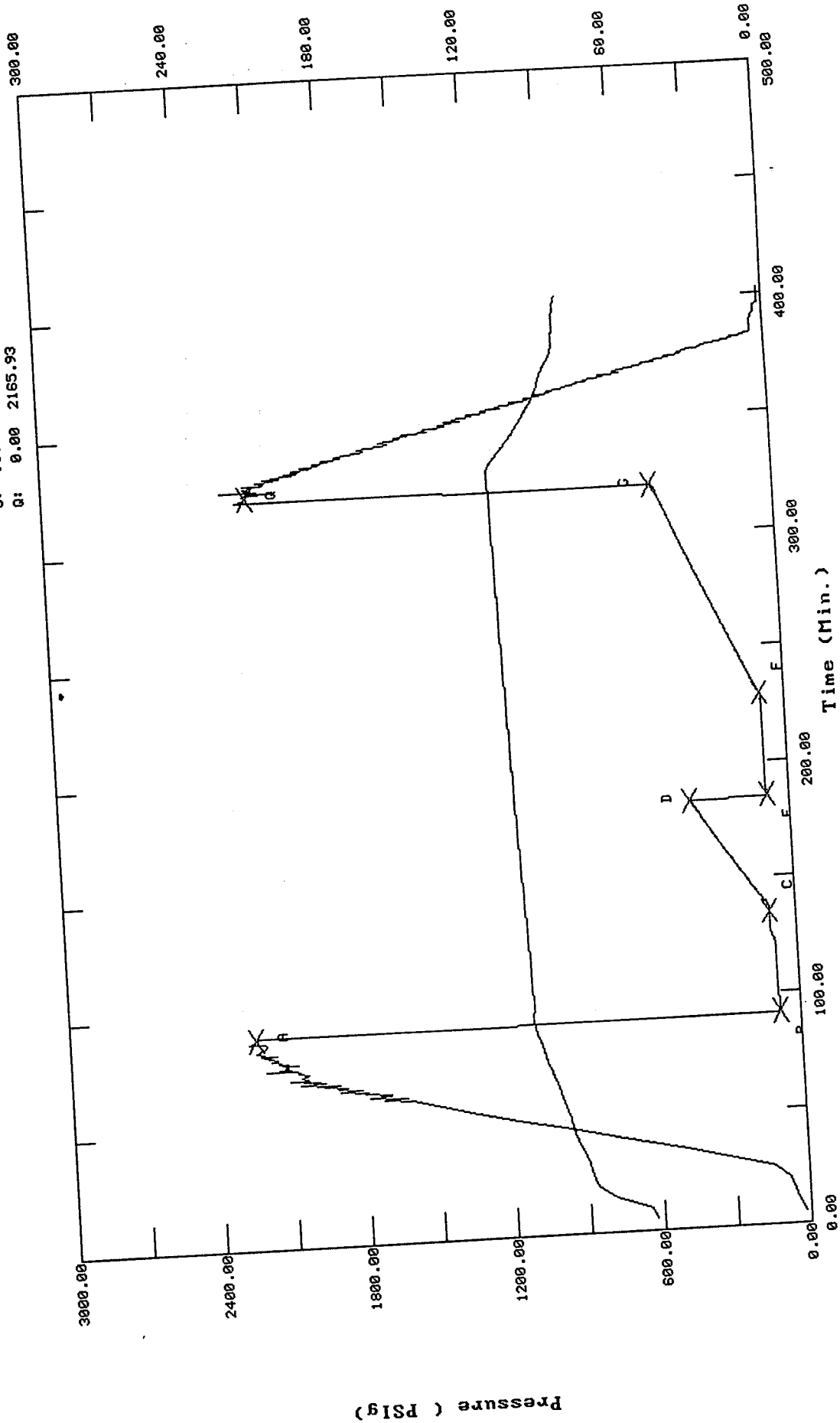
	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** End Shut-in 2	91.00	501.9	402.9	115.99	1.9505	0.252
***** Final Hydro.	322.50	2165.9	0.0	116.12		

TEST HISTORY  
 WINGATE "B" #1 DST#1 TKT 22499

OXY U.S.A. INC.

Flag Points

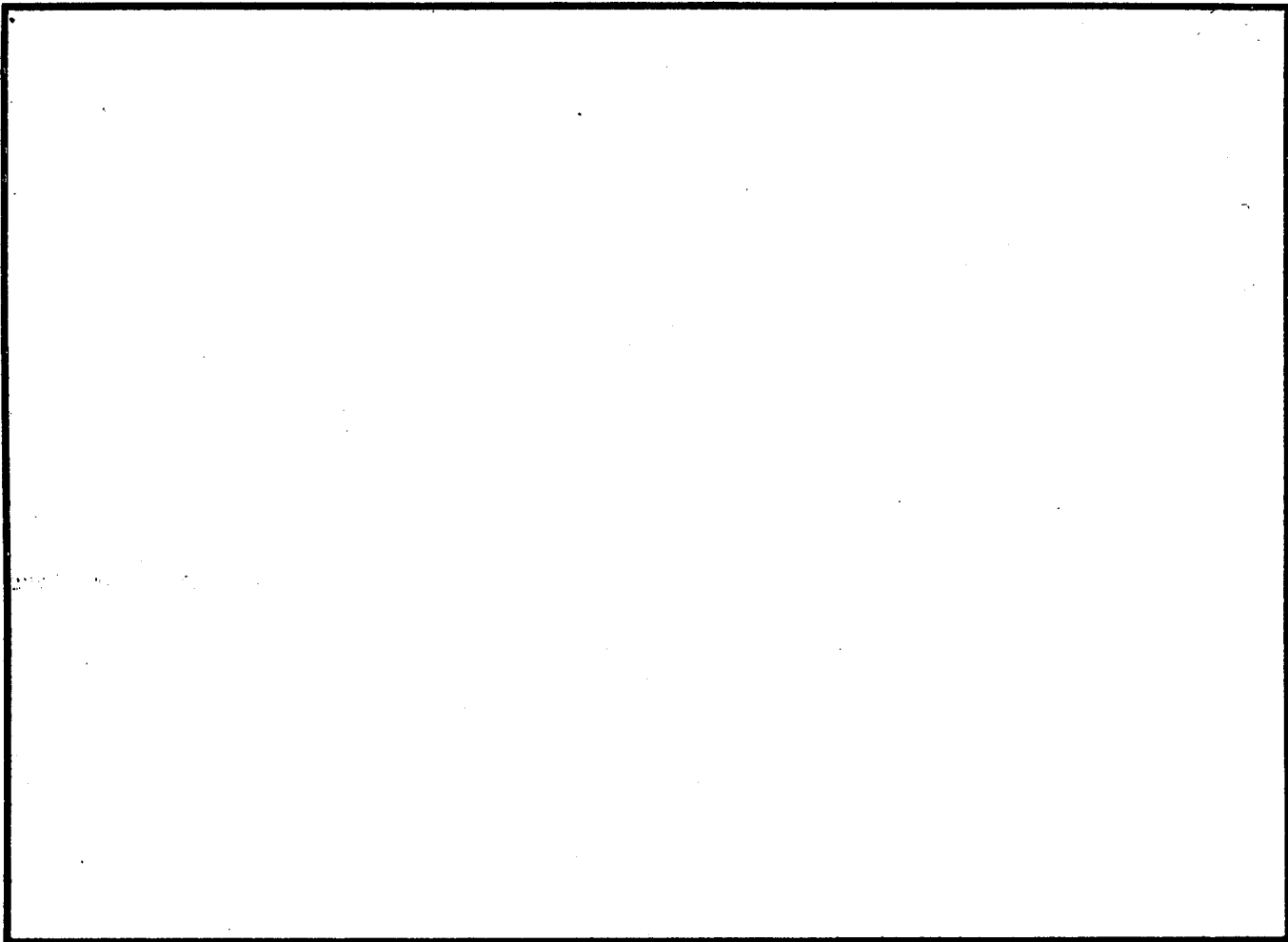
t (Min.)	P (PSig)
A: 0.00	2238.21
B: 0.00	82.22
C: 43.00	107.85
D: 50.00	403.27
E: 0.00	89.09
F: 43.50	99.04
G: 91.00	501.95
Q: 0.00	2165.93



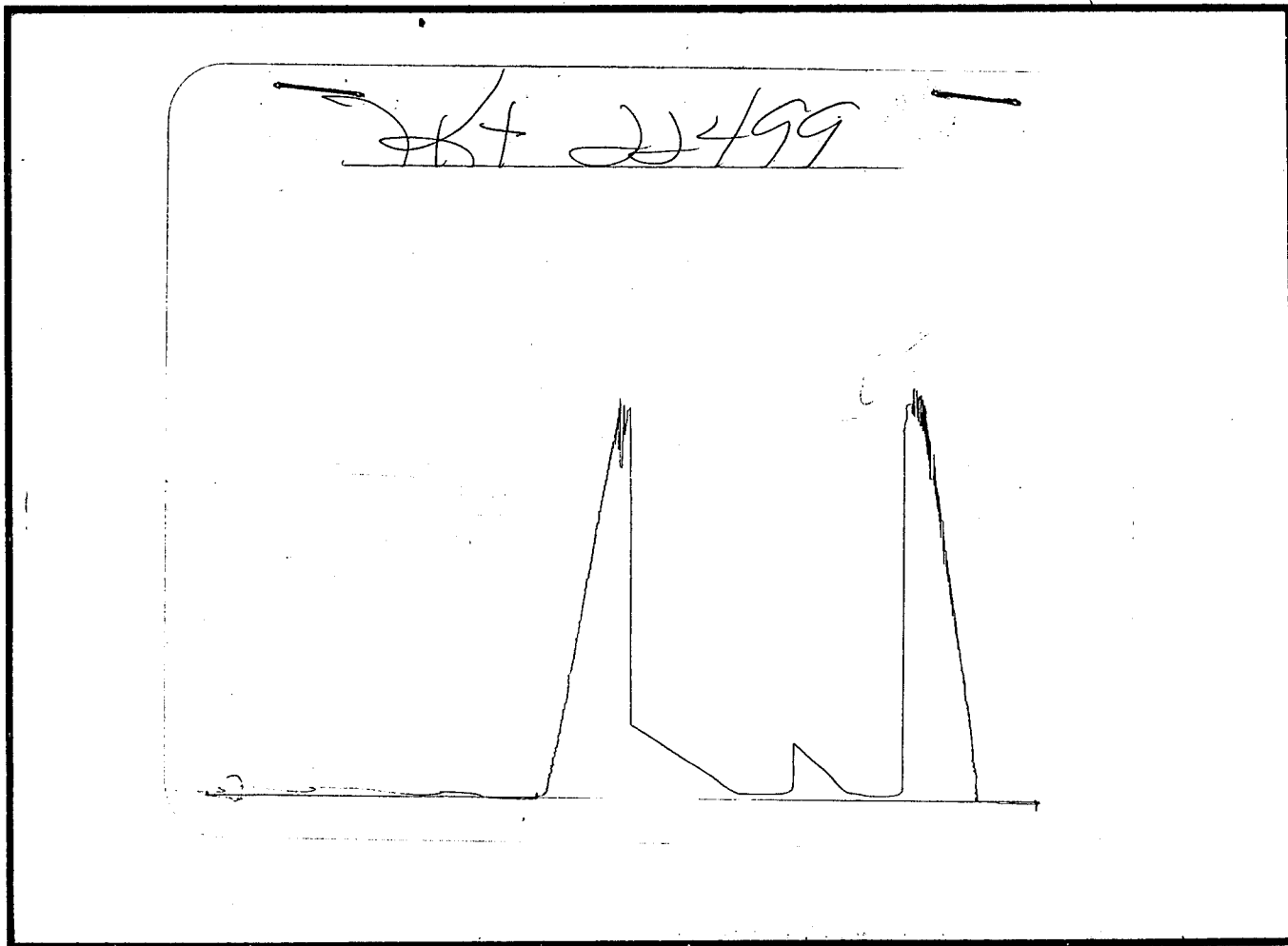
Pressure ( PSig )

Temperature ( DEG F )

Time ( Min. )



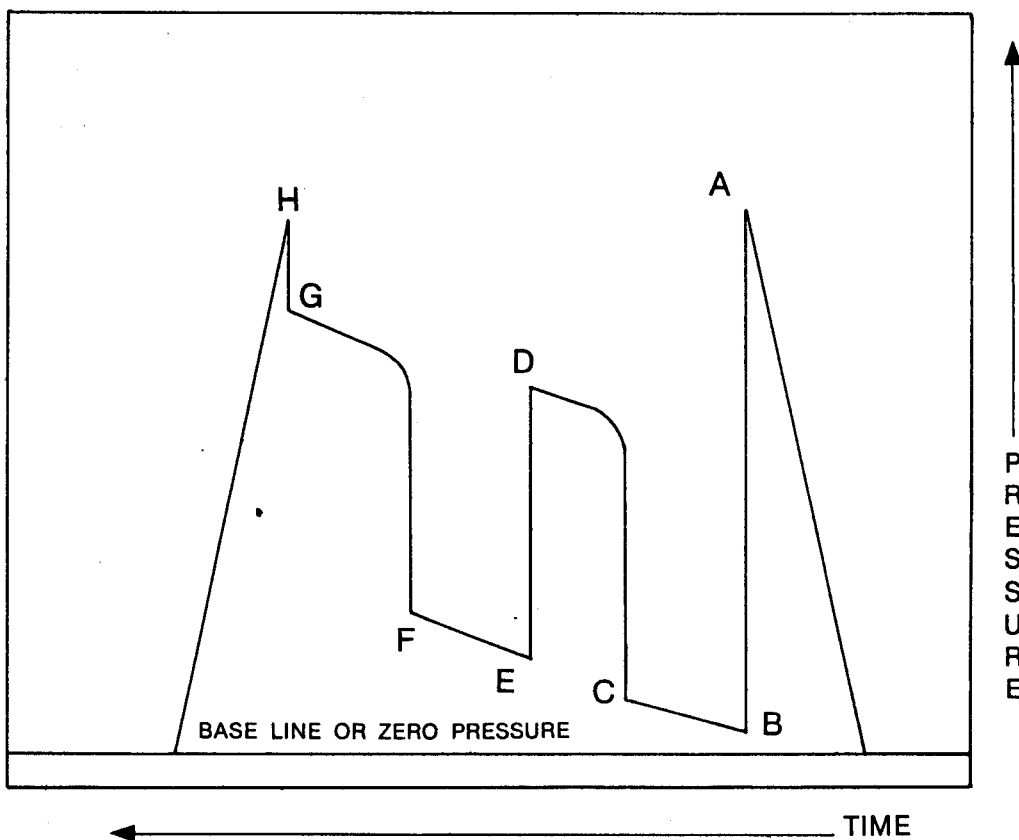
Inside Recorder



### COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

### AK-1 Recorders



A - Initial Hydrostatic  
B - First Initial Flow  
C - First Final Flow  
D - Initial Shut-In

E - Second Initial Flow  
F - Second Final Flow  
G - Final Shut-In  
H - Final Hydrostatic