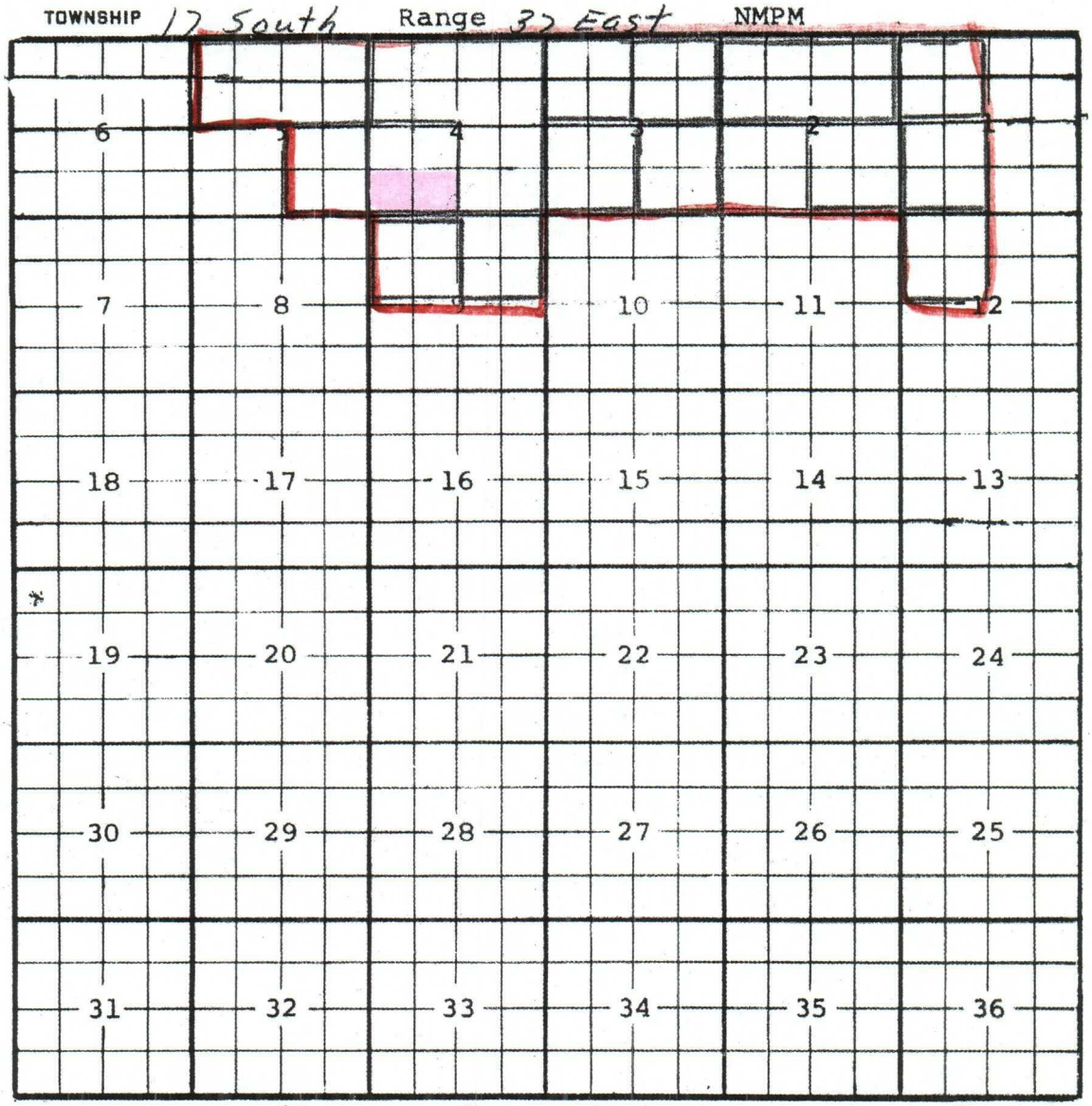
80 acres

County Lea Pool Shipp-Strawn

TOWNSHIP 17 South Range 37 East NMPM



Description: All Sec. 3, E/2 and E/2 W/2 Sec. 4, NE/4 and E/2 NW/4 Sec. 5, N/2 Sec. 10 (R-8062, 10-31-85)

Amend horizontal limits to be N/2 and SE/4 Sec. 4 (R-8062-A, 1-21-86)

Ext: NE/4 Sec. 9 (R-8214, 5-1-86) Ext: NW/4 Sec. 9 (R-8340, 11-3-86)

Ext: NW/4 Sec. 3 (R-8409, 3-7-87) Ext: NE/4 Sec. 3 (R-8451, 6-3-87)

Ext: SE/4 SEC 3 (R-8533, 10/28/87) EXT: N/2 SEC 5 (R-8603, 3/1/88)

EXT: N/2 SEC 2, SW/4 SEC 3 (R-8626, 4/1/88) EXT: SW/4 SEC 2 (R-8856, 1-25-89)

EXT: SW/4 SEC 1 (R-8901 4-1-89) EXT: SE/4 SEC 2, NW/4 SEC 12 (R-9741, 9-1-89)

EXT: NW/4 SEC 1 (R-8772, 11-1-88) EXT: SW/4 SEC 4, SE/4 SEC 5 (R-9472, 4-1-91)

CMD :
OG5SECT

ONGARD
INQUIRE LAND BY SECTION

08/16/05 14:11:39
OGOMES -TQHR
PAGE NO: 1

Sec : 04 Twp : 17S Rng : 37E Section Type : NORMAL

4 40.65 MH V06597 0001 CHESAPEAKE EXPLOR 03/01/07 A	3 40.75 MH V06597 0001 CHESAPEAKE EXPLOR 03/01/07 A	2 40.85 Federal owned A	1 40.95 Federal owned A A
E 40.00 MH V06597 0001 CHESAPEAKE EXPLOR 03/01/07 A	F 40.00 MH V06597 0001 CHESAPEAKE EXPLOR 03/01/07 A	G 40.00 Fee owned A	H 40.00 Fee owned C
L 40.00 MH E08636 0001 CONOCOPHILLIPS CO 11/16/64 A	K 40.00 MH E08636 0001 CONOCOPHILLIPS CO 11/16/64 A	J 40.00 Fee owned	I 40.00 Fee owned A
M 40.00 MH VB0665 0001 CHESAPEAKE EXPLOR 05/01/10	N 40.00 MH B02517 0000 CONOCOPHILLIPS CO 02/10/44 A	O 40.00 Fee owned A A	P 40.00 Fee owned

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

5a. Indicate Type of Lease: State [X] Fee [ ]

5. State Oil & Gas Lease No.: V-927

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT —" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL [XX] GAS WELL [ ] OTHER-

7. Unit Agreement Name:

2. Name of Operator: Tipperary Oil & Gas Corporation

8. Farm or Lease Name: Jons 4 State

3. Address of Operator: P. O. Box 3179, Midland, Texas 79702

9. Well No.: 1

4. Location of Well: UNIT LETTER N, 560 FEET FROM THE South LINE AND 1650 FEET FROM THE West LINE, SECTION 4 TOWNSHIP 17S RANGE 37E NMPM.

10. Field and Pool, or Wildcat: Wildcat

15. Elevation (Show whether DF, RT, GR, etc.): 3780' (GL)

12. County: Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK [ ]	PLUG AND ABANDON [ ]	REMEDIAL WORK [ ]	ALTERING CASING [ ]
TEMPORARILY ABANDON [ ]		COMMENCE DRILLING OPNS. [ ]	PLUG AND ABANDONMENT [X]
PULL OR ALTER CASING [ ]	CHANGE PLANS [ ]	CASING TEST AND CEMENT JOB [ ]	
OTHER [ ]		OTHER [ ]	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

10/28/84 Set 35 sx cement plug @ 11,300'
Set 35 sx cement plug @ 10,985'
Set 35 sx cement plug @ 9,342'
Set 35 sx cement plug @ 8,505'
Set 35 sx cement plug @ 6,335'
Set 35 sx cement plug @ 5,558'

11/02/84 Acidize open hole 4865' - 5407' with 2000 gals 15% NE acid.
Tested water.

11/07/84 Set 35 sx cement plug @ 4150' - 4250'
Set 35 sx cement plug @ 2000' - 2100'
Set 35 sx cement plug @ 350' - 450'
Cut off casing head
Set 10 sx cement plug @ surface

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Joe W Younger TITLE Joe W. Younger Production Operations Mgr. DATE 11-12-84

APPROVED BY Jack R. Griffin TITLE OIL & GAS INSPECTOR DATE 04-16-85

CONDITIONS OF APPROVAL, IF ANY:

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Form C-105
Revised 11-1-78

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease: State [XX] Fee [ ]

5. State Oil & Gas Lease No.: V-927

1a. TYPE OF WELL
b. TYPE OF COMPLETION
OIL WELL [ ] GAS WELL [ ] DRY [XX] OTHER
NEW WELL [ ] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] OTHER

7. Unit Agreement Name: --

8. Farm or Lease Name: Jons 4 State

2. Name of Operator: Tipperary Oil & Gas Corporation

9. Well No.: 1

3. Address of Operator: Box 3179, Midland, TX 79702

10. Field and Pool, or Wildcat: Wildcat

4. Location of Well
UNIT LETTER N LOCATED 560 FEET FROM THE South LINE AND 1650 FEET FROM THE West LINE OF SEC. 4 TWP. 17S RGE. 37E NMPM

12. County: Lea

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
9-22-84	10-23-84	11-07-84 P&A	3780' (GL)	3780'

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
11336 ~~10,336'~~	Surface	--	→	XXX	--

24. Producing Interval(s), of this completion — Top, Bottom, Name: Dry Hole

25. Was Directional Survey Made: No

26. Type Electric and Other Logs Run: Dual Laterolog, Micro Laterolog, Neutron, Density, Gamma Ray

27. Was Well Cored: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	68	397	17-1/2"	420 sx (Circ 60 sx)	None
8-5/8"	24 & 32	4202	12-1/4"	1950 sx (Circ 150 sx)	None

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
None				

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET

31. Perforation Record (Interval, size and number)
No perforations

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4865-5407(open hole)	2000 gal 15% NE

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
Dry Hole	--	Plugged & Abandoned

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio
--	--	--		--	--	--	--

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
--	--		--	--	--	--

34. Disposition of Gas (Sold, used for fuel, vented, etc.): --

Test Witnessed By

35. List of Attachments: Logs: Dual Laterolog-Microlaterolog-Gamma Ray; Comp Densilog Comp Neutron Gamma Ray; C-103; DST's; Inclination Report

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Joe W Yarbrough TITLE Production Operations Mgr. DATE 11-12-84

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than ___ days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radioactivity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico				Northwestern New Mexico			
T. Anhy		T. Canyon		T. Ojo Alamo		T. Penn. "B"	
T. Salt		T. Strawn	10960	T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka	11074	T. Pictured Cliffs		T. Penn. "D"	
T. Yates		T. Miss	11284	T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen		T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg	4596	T. Montoya		T. Mancos		T. McCracken	
T. San Andres	4864	T. Simpson		T. Gallup		T. Ignacio Qtzte	
T. Glorieta	6304	T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T.	
T. Blinebry		T. Gr. Wash		T. Morrison		T.	
T. Tubb		T. Granite		T. Todilto		T.	
T. Drinkard		T. Delaware Sand		T. Entrada		T.	
T. Abo	8450	T. Bone Springs		T. Wingate		T.	
T. Wolfcamp	9294	T.		T. Chinle		T.	
T. Penn.	10486	T.		T. Permian		T.	
T. Cisco (Bough C)		T.		T. Penn. "A"		T.	

OIL OR GAS SANDS OR ZONES

No. 1, from ..... to ..... No. 4, from ..... to .....

No. 2, from ..... to ..... No. 5, from ..... to .....

No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet. .....

No. 2, from ..... to ..... feet. .....

No. 3, from ..... to ..... feet. .....

No. 4, from ..... to ..... feet. .....

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
Surf	4865	4865	Redbed, anhy, salt, lime	10500	10950	450	shale, limestone
4865	6300	1435	Dolomit, anhydrite	10950	11070	120	limestone, shale
6300	7300	1000	Dolomite, sandstone, shale	11070	11280	210	shale, sandstone
7300	8800	1500	Dolo, cherty dolo, ss	11280	11336	56	limestone
8800	9300	500	Limestone, shale, dolo				
9300	10000	700	Limestone, shale, chert				
10000	10500	500	Dolomite, limestone, shale				

RECEIVED

NOV 29 1984

O.C.D.
HOBBS OFFICE

LANDIS DRILLING COMPANY
P. O. Box 3579
MIDLAND, TEXAS 79702

OPERATOR Tipperary Oil & Gas Corporation ADDRESS P. O. Box 3179, Midland, TX 79702

LEASE NAME Jons State WELL NO. 4-1

LOCATION 660'FSL & 1650'FWL, Section 4, T-17-S, R-37-E, Lea County, New Mexico

DEPTH	ANGLE-INCLINATION DEGREES	DISPLACEMENT	ACCUMULATIVE DISPLACEMENT
397	1/2	3.47	3.47
882	1/4	2.12	5.59
1352	1/2	4.10	9.69
1860	3/4	4.43	14.12
2024	1/4	.72	14.84
2516	1/2	4.30	19.14
2891	1/2	3.27	22.41
3425	3/4	6.99	29.40
3925	3/4	6.55	35.95
4202	3/4	3.63	39.58
4757	1/4	2.43	42.01
5257	1/2	4.37	46.38
5690	1/2	3.78	50.16
6250	1	9.77	59.93
6876	1	10.92	70.85
7317	3/4	5.77	76.62
7817	1	8.73	85.35
8327	1 1/4	11.13	96.48
8495	1 1/2	4.40	100.88
8686	1 1/4	4.17	105.05
8979	1 3/4	8.95	114.00
9191	2 1/2	9.25	123.25
9435	2 3/4	11.71	134.96
9621	3	9.74	144.70
9869	3 1/4	14.06	158.76
10,116	3	12.93	171.69
10,504	3 1/4	22.00	193.69
11,025	2 1/4	20.45	214.14
11,336	2 3/4	14.92	229.06

I hereby certify that the above data as set forth is true and correct to the best of my knowledge and belief.

LANDIS DRILLING COMPANY

Gary W. Chappell
TITLE: Vice President - Contracts

AFFIDAVIT:

Before me, the undersigned authority, appeared Gary W. Chappell known to me to be the person whose name is subscribed herebelow, who on making deposition, under oath states that he is acting for and in behalf of the Operator of the well identified above, and that to the best of his knowledge and belief, such well was not intentionally deviated from the true vertical whatsoever.

Pamela A. Hughes
AFFIDANT'S SIGNATURE

Sworn and subscribed to in my presence on this the 1st day of November, 19 84.

Pamela A. Hughes
Pamela A. Hughes
Notary Public in and for the
County of Midland, Texas

DST #1

REPORT NO: 48020E

WELL PERFORMANCE TESTING™ REPORT

A Production System Analysis (NODAL™)
Based on Model Verified™ Interpretation

FLOPETROL JOHNSTON
Schlumberger

TEST DATE: Oct. 4, 1984

PAGE NO: 1

Company: Tipperary Oil & Gas Corporation

Well: Jons State 4-#1

TEST IDENTIFICATION

Test Type	MFE OH
Test No.	One
Formation	Clear Fork
Test Interval (ft)	7221 to 7317
Reference Depth	Kelly Bushing

WELL LOCATION

Field	Wildcat (Non-Des)
County	Lea
State	New Mexico
Sec/Twn/Rng	4/27W/37E
Elevation (ft)	3780

HOLE CONDITIONS

Total Depth (MD/TVD) (ft)	- / 7317
Hole Size (in)	7 7/8
Csg/Liner I.D. (in)	---
Perf'd Interval/Net Pay (ft)	---
Shot Density/Diameter (in)	---

MUD PROPERTIES

Mud Type	Fresh Water
Mud Weight (lb/gal)	8.34
Mud Resistivity (OHM-M)	1.5 @ 70
Filtrate Resistivity (OHM-M)	---
Filtrate Chlorides (PPM)	1500

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi)	3197
Gas Cushion Type	None
Surface Pressure (psi)	---
Liquid Cushion Type	None
Cushion Length (ft)	---

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in)	6791 / 3.83
Collar Length (ft)/I.D. (in)	394 / 2.25
Packer Depth(s) (ft)	7215 / 7221
BH Choke Size (in)	15/16
Gauge Depth (ft)/Type	7310 / J-200

NET PIPE RECOVERY

Volume	Fluid Type	Properties
330 Feet	Water with	1,500 PPM
	trace of Oil	Res. 1.5 @ 70°

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
.05 Ft3	Gas	
20 cc	Oil	
1860 cc	Water	1,500 PPM

Pressure: 82	GOR: 398	GLR: 4

INTERPRETATION RESULTS

Model of Behavior	
Fluid Type Used for Analysis	
Reservoir Pressure (psi)	
Transmissibility (md-ft/cp)	
Effective Permeability (md)	
Skin Factor/Damage Ratio	
Storativity ratio	
Interporosity Flow Coeff	
Distance To An Anomaly (ft)	
Radius of Investigation (ft)	
Potentiometric Surface (ft)	

ROCK/FLUID/WELLBORE PROPERTIES

Oil API	
Basic Solids	
Gas Gravity	
Water Cut (%)	
Viscosity (cp)	
Total Compressibility (1/psi)	
Porosity (%)	6
Reservoir Temperature (F)	130

PRODUCTION RATE DURING TEST:

COMMENTS:

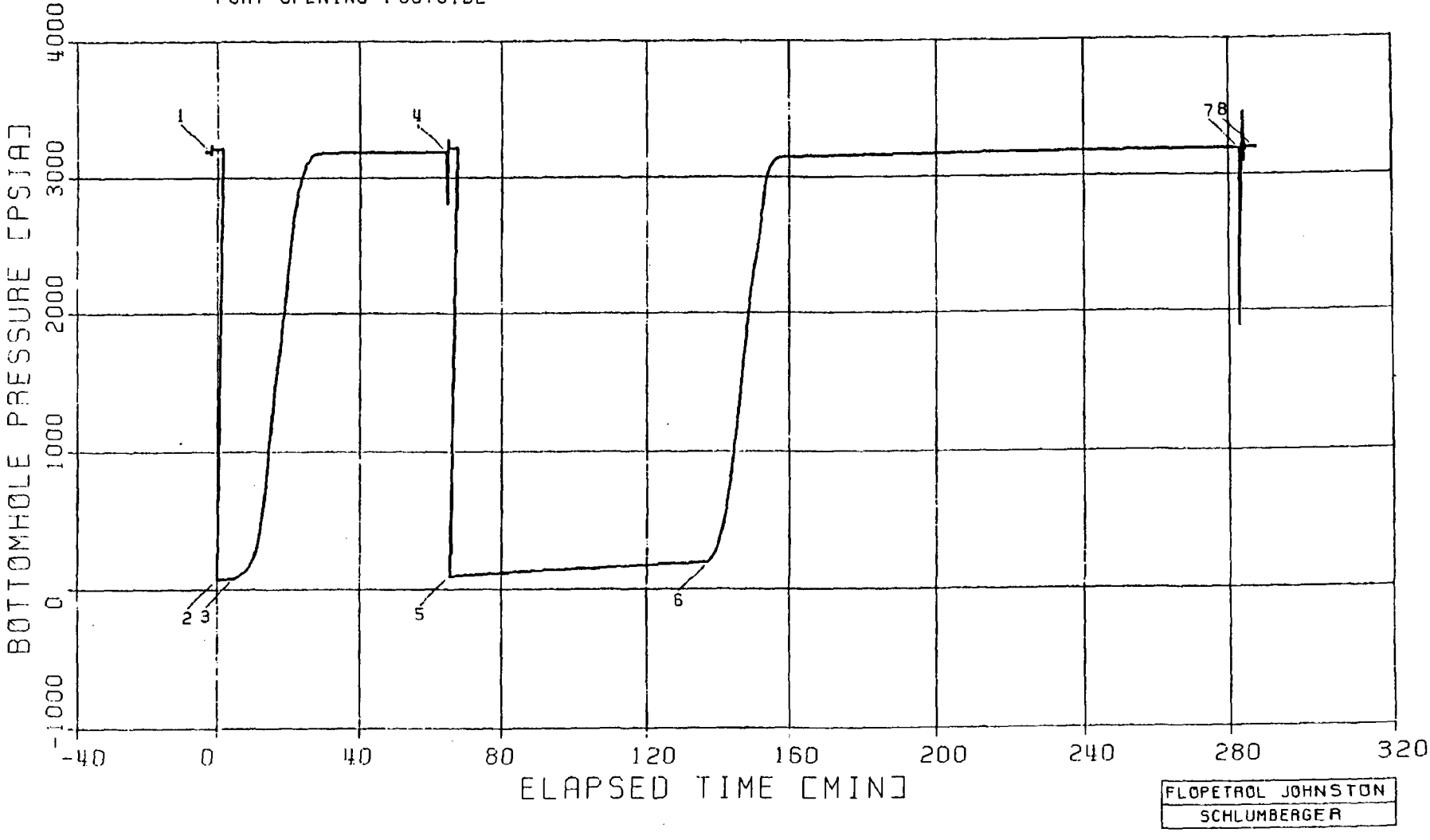
Initial flow: No blow.
Final flow : Very weak blow, 1/4" in water.

OCT - 9 19[illegible]

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 48020E
INSTRUMENT NO. J-1118
DEPTH : 7305 FT
CAPACITY : 4700 PSI
PORT OPENING : OUTSIDE

COMPANY : TIPPERARY OIL & GAS CORPORATION
WELL : JONS STATE 4-#1



FLOPETROL JOHNSTON
SCHLUMBERGER

****
* WELL TEST DATA PRINTOUT *
****

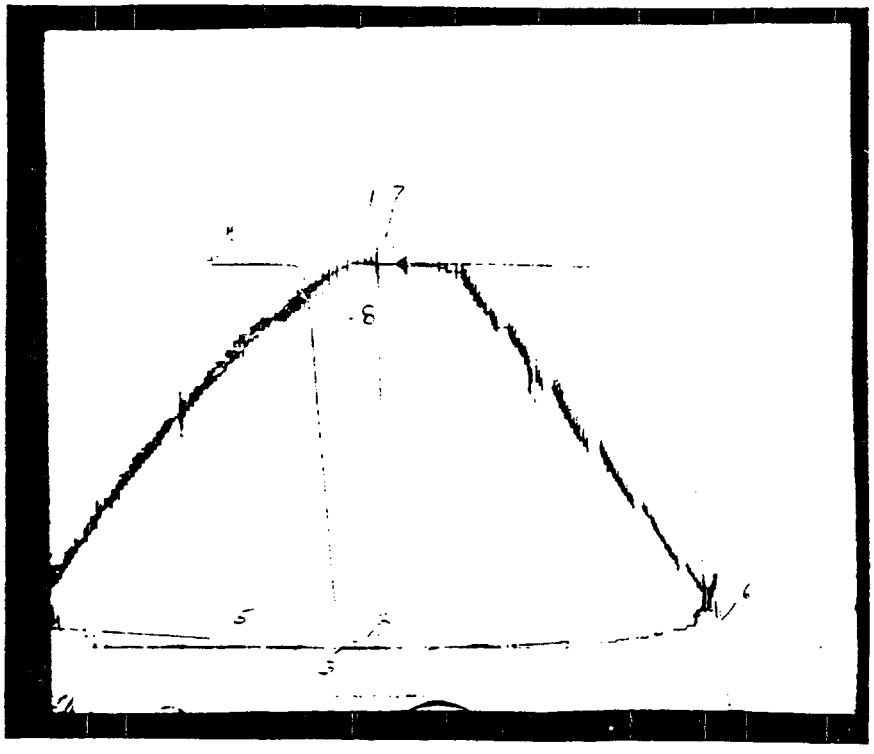
FIELD REPORT # : 48020E

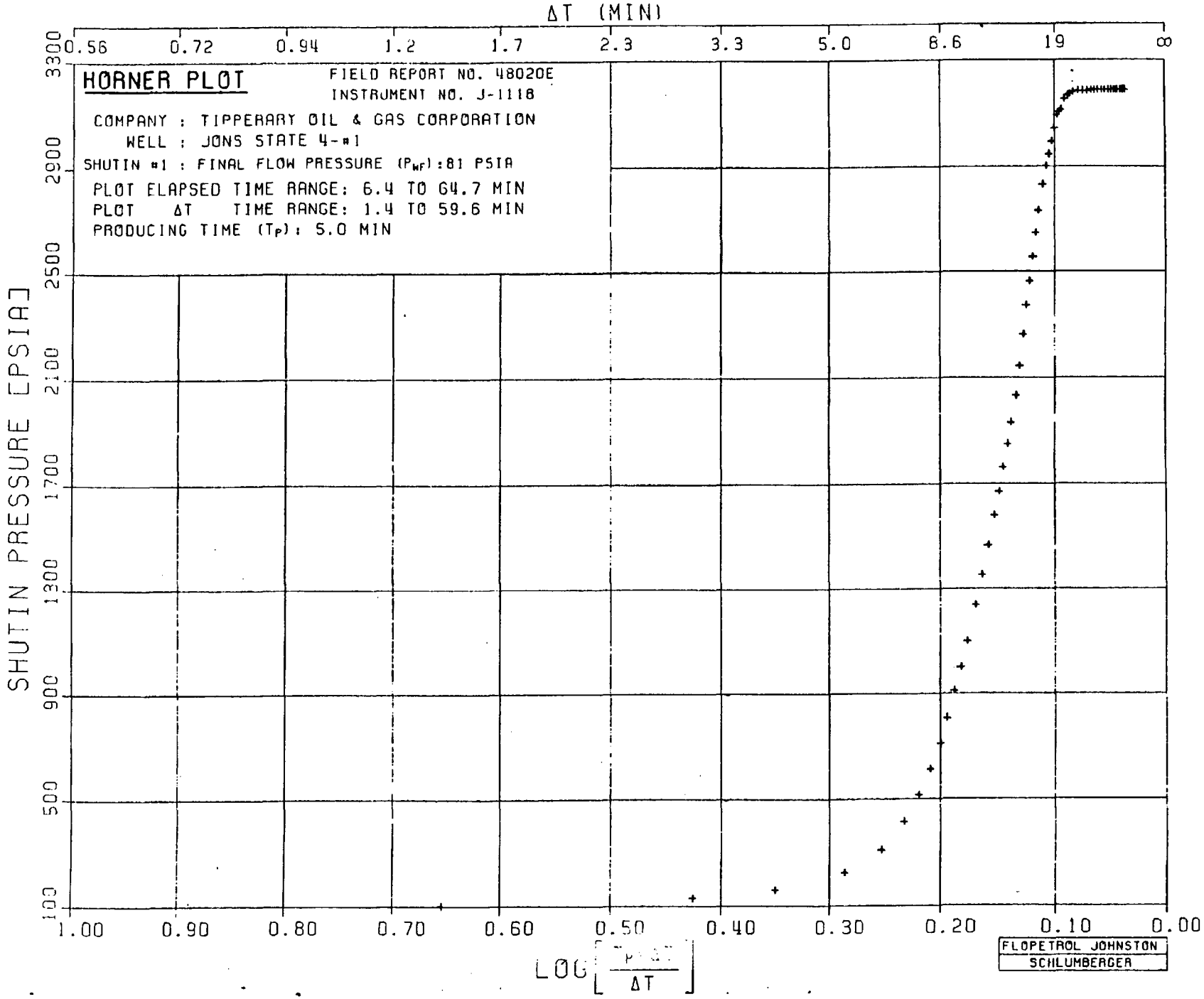
COMPANY : TIPPERARY OIL & GAS CORPORATION
WELL : JONS STATE 4-#1

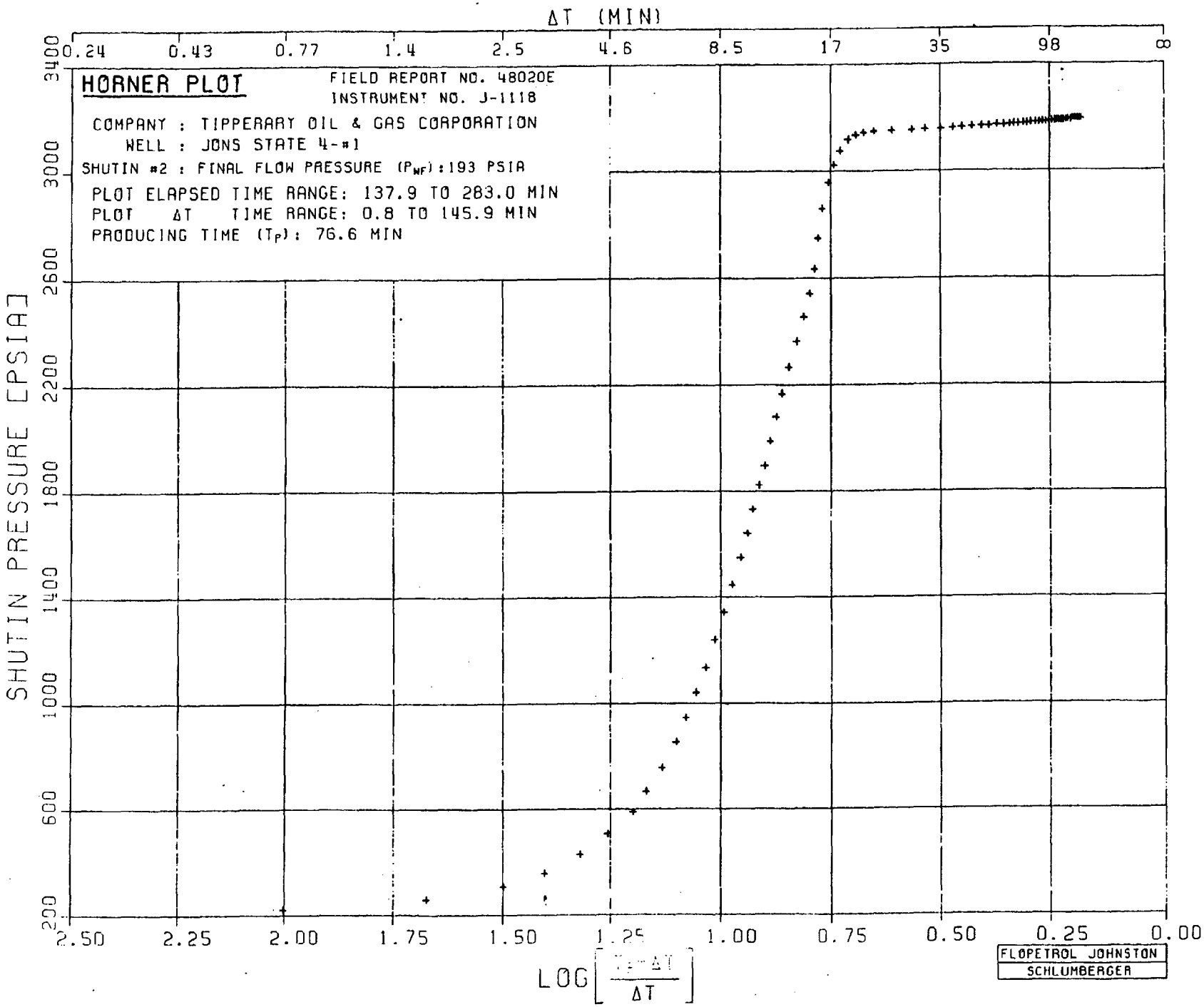
INSTRUMENT # : J-1118
CAPACITY [PSI] : 4700.
DEPTH [FT] : 7305.0
PORT OPENING : OUTSIDE
TEMPERATURE [DEG F] : 130.0

MNEMONICS : ET = ELAPSED TIME ..... [MIN]
PW = BOTTOMHOLE PRESSURE ..... [PSIA]

#	CODE	EXPLANATION	ET	PW
1	1	HYDROSTATIC MUD	-2.20	3197.44
2	2	START FLOW	0.00	73.27
3	6	END FLOW & START SHUT-IN	5.01	81.24
4	5	END SHUT-IN	64.65	3191.34
5	2	START FLOW	65.54	95.79
6	6	END FLOW & START SHUT-IN	137.08	193.16
7	5	END SHUT-IN	283.00	3193.45
8	1	HYDROSTATIC MUD	286.85	3199.55




ΔT (MIN)
0.56
0.72
0.94
1.2
1.7
2.3
3.3
5.0
8.6
19
∞
HORNER PLOT
FIELD REPORT NO. 48020E
INSTRUMENT NO. J-1118
COMPANY : TIPPERARY OIL & GAS CORPORATION
WELL : JONS STATE 4-#1
SHUTIN #1 : FINAL FLOW PRESSURE (P_{WF}) : 81 PSIA
PLOT ELAPSED TIME RANGE: 6.4 TO 64.7 MIN
PLOT ΔT TIME RANGE: 1.4 TO 59.6 MIN
PRODUCING TIME (T_P) : 5.0 MIN
SHUTIN PRESSURE [PSIA]
3300
2900
2500
2100
1700
1300
900
500
100
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
LOG [(tp + Δt) / Δt]
FLOPETROL JOHNSTON
SCHLUMBERGER


ΔT (MIN)
0.24
0.43
0.77
1.4
2.5
4.6
8.5
17
35
98
∞
HORNER PLOT
FIELD REPORT NO. 48020E
INSTRUMENT NO. J-1118
COMPANY : TIPPERARY OIL & GAS CORPORATION
WELL : JONS STATE 4-#1
SHUTIN #2 : FINAL FLOW PRESSURE (P_{WF}) : 193 PSIA
PLOT ELAPSED TIME RANGE: 137.9 TO 283.0 MIN
PLOT ΔT TIME RANGE: 0.8 TO 145.9 MIN
PRODUCING TIME (T_P): 76.6 MIN
SHUTIN PRESSURE [PSIA]
3400
3000
2600
2200
1800
1400
1000
600
200
2.50
2.25
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
LOG [(Tp+ΔT) / ΔT]
FLOPETROL JOHNSTON
SCHLUMBERGER

* WELL TEST DATA PRINTOUT *

FIELD REPORT # : 48020E

COMPANY : TIPPERARY OIL & GAS CORPORATION
WELL : JONS STATE 4-#1

INSTRUMENT # : J-1118
CAPACITY [PSI] : 4700.
DEPTH [FT] : 7305.0
PORT OPENING : OUTSIDE
TEMPERATURE [DEG F] : 130.0

LABEL POINT INFORMATION

#	TIME OF DAY HH:MM:SS	DATE DD-MM	EXPLANATION	ELAPSED TIME,MIN	BOT HOLE PRESSURE PSIA
1	20:58:48	4-OC	HYDROSTATIC MUD	-2.20	3197
2	21: 1: 0	4-OC	START FLOW	0.00	73
3	21: 6: 1	4-OC	END FLOW & START SHUT-IN	5.01	81
4	22: 5:39	4-OC	END SHUT-IN	64.65	3191
5	22: 6:32	4-OC	START FLOW	65.54	96
6	23:18: 5	4-OC	END FLOW & START SHUT-IN	137.08	193
7	1:44: 0	5-OC	END SHUT-IN	283.00	3193
8	1:47:51	5-OC	HYDROSTATIC MUD	286.85	3200

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
1	0.00	5.01	5.01	73	81
2	65.54	137.08	71.54	96	193

SUMMARY OF SHUTIN PERIODS

PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	5.01	64.65	59.64	81	3191	81	5.01
2	137.08	283.00	145.92	193	3193	193	76.55

TEST PHASE : FLOW PERIOD # 1

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
21: 1: 0	4-OC	0.00	0.00	73
21: 6: 0	4-OC	5.00	5.00	81
21: 6: 1	4-OC	5.01	5.01	81

TEST PHASE : SHUTIN PERIOD # 1
FINAL FLOW PRESSURE [PSIA] = 81
PRODUCING TIME [MIN] = 5.01

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
21: 6: 1	4-OC	5.01	0.00	81	0	
21: 7: 1	4-OC	6.01	1.00	96	15	0.779
21: 8: 1	4-OC	7.01	2.00	112	31	0.545
21: 9: 1	4-OC	8.01	3.00	130	49	0.427
21:10: 1	4-OC	9.01	4.00	160	79	0.353
21:11: 1	4-OC	10.01	5.00	209	128	0.301
21:12: 1	4-OC	11.01	6.00	283	201	0.264
21:13: 1	4-OC	12.01	7.00	404	323	0.234
21:14: 1	4-OC	13.01	8.00	587	506	0.211
21:15: 1	4-OC	14.01	9.00	829	747	0.192
21:16: 1	4-OC	15.01	10.00	1090	1009	0.176
21:18: 1	4-OC	17.01	12.00	1594	1513	0.152
21:20: 1	4-OC	19.01	14.00	2048	1967	0.133
21:22: 1	4-OC	21.01	16.00	2576	2494	0.118
21:24: 1	4-OC	23.01	18.00	2917	2836	0.107
21:26: 1	4-OC	25.01	20.00	3094	3013	0.097
21:28: 1	4-OC	27.01	22.00	3163	3081	0.089
21:30: 1	4-OC	29.01	24.00	3183	3101	0.082
21:32: 1	4-OC	31.01	26.00	3187	3105	0.077
21:34: 1	4-OC	33.01	28.00	3187	3105	0.071
21:36: 1	4-OC	35.01	30.00	3188	3107	0.067
21:41: 1	4-OC	40.01	35.00	3191	3110	0.058
21:46: 1	4-OC	45.01	40.00	3191	3110	0.051
21:51: 1	4-OC	50.01	45.00	3191	3110	0.046
21:56: 1	4-OC	55.01	50.00	3191	3110	0.041
22: 1: 1	4-OC	60.01	55.00	3191	3110	0.038
22: 5:39	4-OC	64.65	59.64	3191	3110	0.035

TEST PHASE : FLOW PERIOD # 2

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
22: 6:32	4-OC	65.54	0.00	96
22:11:32	4-OC	70.54	5.00	104
22:16:32	4-OC	75.54	10.00	113
22:21:32	4-OC	80.54	15.00	120
22:26:32	4-OC	85.54	20.00	126
22:31:32	4-OC	90.54	25.00	134
22:36:32	4-OC	95.54	30.00	140
22:41:32	4-OC	100.54	35.00	146
22:46:32	4-OC	105.54	40.00	153
22:51:32	4-OC	110.54	45.00	160
22:56:32	4-OC	115.54	50.00	166
23: 1:32	4-OC	120.54	55.00	173
23: 6:32	4-OC	125.54	60.00	180
23:11:32	4-OC	130.54	65.00	187
23:16:32	4-OC	135.54	70.00	193
23:18: 5	4-OC	137.08	71.54	193

TEST PHASE : SHUTIN PERIOD # 2
FINAL FLOW PRESSURE [PSIA] = 193
PRODUCING TIME [MIN] = 76.55

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
23:18: 5	4-OC	137.08	0.00	193	0	
23:19: 5	4-OC	138.08	1.00	232	39	1.890
23:20: 5	4-OC	139.08	2.00	280	87	1.594
23:21: 5	4-OC	140.08	3.00	347	154	1.424
23:22: 5	4-OC	141.08	4.00	447	254	1.304
23:23: 5	4-OC	142.08	5.00	570	377	1.212
23:24: 5	4-OC	143.08	6.00	742	549	1.139
23:25: 5	4-OC	144.08	7.00	950	756	1.077
23:26: 5	4-OC	145.08	8.00	1180	987	1.024
23:27: 5	4-OC	146.08	9.00	1424	1231	0.978
23:28: 5	4-OC	147.08	10.00	1668	1475	0.937
23:30: 5	4-OC	149.08	12.00	2133	1940	0.868
23:32: 5	4-OC	151.08	14.00	2463	2270	0.811
23:34: 5	4-OC	153.08	16.00	2905	2712	0.762
23:36: 5	4-OC	155.08	18.00	3096	2903	0.720
23:38: 5	4-OC	157.08	20.00	3140	2947	0.684
23:40: 5	4-OC	159.08	22.00	3149	2956	0.651
23:42: 5	4-OC	161.08	24.00	3151	2958	0.622
23:44: 5	4-OC	163.08	26.00	3152	2959	0.596
23:46: 5	4-OC	165.08	28.00	3153	2960	0.572
23:48: 5	4-OC	167.08	30.00	3155	2962	0.550
23:53: 5	4-OC	172.08	35.00	3159	2966	0.503

TEST PHASE : SHUTIN PERIOD # 2
FINAL FLOW PRESSURE [PSIA] = 193
PRODUCING TIME [MIN] = 76.55

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
23:58: 5	4-OC	177.08	40.00	3162	2969	0.464
0: 3: 5	5-OC	182.08	45.00	3165	2972	0.432
0: 8: 5	5-OC	187.08	50.00	3167	2974	0.403
0:13: 5	5-OC	192.08	55.00	3169	2976	0.379
0:18: 5	5-OC	197.08	60.00	3171	2978	0.357
0:23: 5	5-OC	202.08	65.00	3173	2980	0.338
0:28: 5	5-OC	207.08	70.00	3176	2983	0.321
0:33: 5	5-OC	212.08	75.00	3178	2984	0.305
0:38: 5	5-OC	217.08	80.00	3179	2986	0.292
0:43: 5	5-OC	222.08	85.00	3180	2987	0.279
0:48: 5	5-OC	227.08	90.00	3181	2988	0.267
0:53: 5	5-OC	232.08	95.00	3183	2990	0.257
0:58: 5	5-OC	237.08	100.00	3184	2991	0.247
1: 3: 5	5-OC	242.08	105.00	3186	2992	0.238
1: 8: 5	5-OC	247.08	110.00	3187	2993	0.229
1:13: 5	5-OC	252.08	115.00	3188	2995	0.222
1:18: 5	5-OC	257.08	120.00	3189	2996	0.214
1:23: 5	5-OC	262.08	125.00	3191	2998	0.207
1:28: 5	5-OC	267.08	130.00	3193	3000	0.201
1:33: 5	5-OC	272.08	135.00	3193	3000	0.195
1:38: 5	5-OC	277.08	140.00	3193	3000	0.189
1:43: 5	5-OC	282.08	145.00	3193	3000	0.184
1:44: 0	5-OC	283.00	145.92	3193	3000	0.183

X

FLOPETROL JOHNSTON

Schlumberger

technical report

COMPANY Tipperary Oil & Gas Corporation WELL (Abo) Jons State 4-#1 TEST NO. 2 8646' to 8686' COUNTY Lea STATE New Mexico

Field Report #54088E

REPORT NO: 54088E

WELL PERFORMANCE TESTING™ REPORT

FLOPETROL JOHNSTON
Schlumberger

TEST DATE: Oct. 12, 1984

A Production System Analysis (NODAL™)
Based on Model Verified™ Interpretation

Company: Tipperary Oil & Gas Corporation

Well: Jons State 4-#1

TEST IDENTIFICATION

Test Type	MFE OH
Test No.	Two
Formation	Abo
Test Interval (ft)	8446 to 8686
Reference Depth	Kelly Bushing

WELL LOCATION

Field	Wildcat
County	Lea
State	New Mexico
Sec/Twn/Rng	4/17S/30E
Elevation (ft)	3780 (Ground Level)

HOLE CONDITIONS

Total Depth (MD/TVD) (ft)	8686
Hole Size (in)	7 7/8
Csg/Liner I.D. (in)	----
Perf'd Interval/Net Pay (ft)	-/4
Shot Density/Diameter (in)	----

MUD PROPERTIES

Mud Type	Fresh Water
Mud Weight (lb/gal)	8.4
Mud Resistivity (OHM-M)	4.6 @ 58°F
Filtrate Resistivity (OHM-M)	----
Filtrate Chlorides (PPM)	700

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi)	3792
Gas Cushion Type	None
Surface Pressure (psi)	----
Liquid Cushion Type	None
Cushion Length (ft)	----

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in)	8173 / 3.83
Collar Length (ft)/I.D. (in)	439 / 2.25
Packer Depth(s) (ft)	8640 / 8646
BH Choke Size (in)	15/16
Gauge Depth (ft)/Type	8673 / J-200

NET PIPE RECOVERY

Volume	Fluid Type	Properties
10 Feet	Drlg fluid	700 PPM
	Slight Oil/cut	Res. 4.6 @58°F

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
(Trace)	Oil	
2300 cc	Mud	
Pressure: ---	GOR:	GLR:

INTERPRETATION RESULTS

Model of Behavior	
Fluid Type Used for Analysis	
Reservoir Pressure (psi)	
Transmissibility (md-ft/cp)	
Effective Permeability (md)	
Skin Factor/Damage Ratio	
Storativity ratio	
Interporosity Flow Coeff	
Distance To An Anomaly (ft)	
Radius of Investigation (ft)	
Potentiometric Surface (ft)	

ROCK/FLUID/WELLBORE PROPERTIES

Oil API	
Basic Solids	
Gas Gravity	
Water Cut (%)	
Viscosity (cp)	
Total Compressibility (1/psi)	
Porosity (%)	
Reservoir Temperature (F)	138

PRODUCTION RATE DURING TEST:

COMMENTS: Both clocks stopped during the initial shut-in period.

TEST PHASE : FLOW PERIOD # 1

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
19:43: 0	9-OC	0.00	0.00	57
19:48: 0	9-OC	5.00	5.00	58
19:53: 0	9-OC	10.00	10.00	58
19:53:31	9-OC	10.51	10.51	58

TEST PHASE : SHUTIN PERIOD # 1
FINAL FLOW PRESSURE [PSIA] = 58
PRODUCING TIME [MIN] = 10.51

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
19:53:31	9-OC	10.51	0.00	58	0	
19:54:31	9-OC	11.51	1.00	63	5	1.061
19:55:31	9-OC	12.51	2.00	65	7	0.796
19:56:31	9-OC	13.51	3.00	67	10	0.654
19:57:31	9-OC	14.51	4.00	70	13	0.560
19:58:31	9-OC	15.51	5.00	73	15	0.492
19:59:31	9-OC	16.51	6.00	74	17	0.440
20: 0:31	9-OC	17.51	7.00	77	19	0.398
20: 1:31	9-OC	18.51	8.00	79	21	0.364
20: 2:31	9-OC	19.51	9.00	80	23	0.336
20: 3:31	9-OC	20.51	10.00	82	24	0.312
20: 5:31	9-OC	22.51	12.00	85	27	0.273
20: 7:31	9-OC	24.51	14.00	88	31	0.243
20: 9:31	9-OC	26.51	16.00	91	33	0.219
20:11:31	9-OC	28.51	18.00	94	36	0.200
20:13:31	9-OC	30.51	20.00	97	39	0.183
20:15:31	9-OC	32.51	22.00	100	42	0.170
20:17:31	9-OC	34.51	24.00	103	45	0.158
20:19:31	9-OC	36.51	26.00	105	48	0.147
20:19:52	9-OC	36.86	26.35	107	49	0.146

* WELL TEST DATA PRINTOUT *

FIELD REPORT # : 5408&E

COMPANY : TIPPERARY OIL & GAS CORPORATION
WELL : JONS STATE 4 #1

INSTRUMENT # : J-371
CAPACITY [PSI] : 6400.
DEPTH [FT] : 8673.0
PORT OPENING : OUTSIDE
TEMPERATURE [DEG F] : 138.0

LABEL POINT INFORMATION

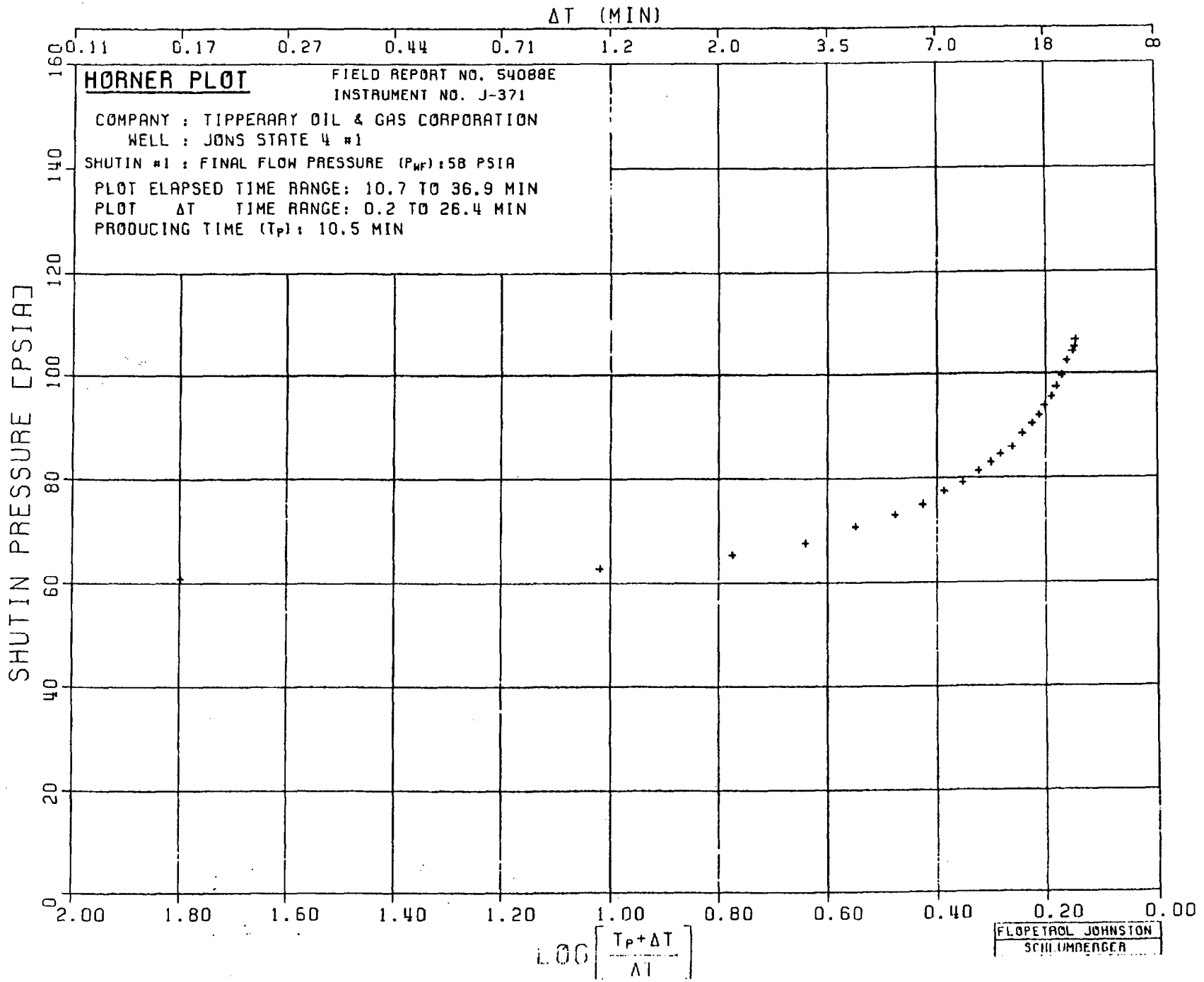
#	TIME OF DAY HH:MM:SS	DATE DD-MM	EXPLANATION	ELAPSED TIME,MIN	BOT HOLE PRESSURE PSIA
1	19:40:47	9-OC	HYDROSTATIC MUD	-2.21	3792
2	19:43: 0	9-OC	START FLOW	0.00	57
3	19:53:31	9-OC	END FLOW & START SHUT-IN	10.51	58
4	20:19:52	9-OC	END SHUT-IN	36.86	107
5	20:20: 1	9-OC	CLOCK STOPPED	37.01	102
6	20:23:11	9-OC	HYDROSTATIC MUD	40.18	3677

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
1	0.00	10.51	10.51	57	58

SUMMARY OF SHUTIN PERIODS

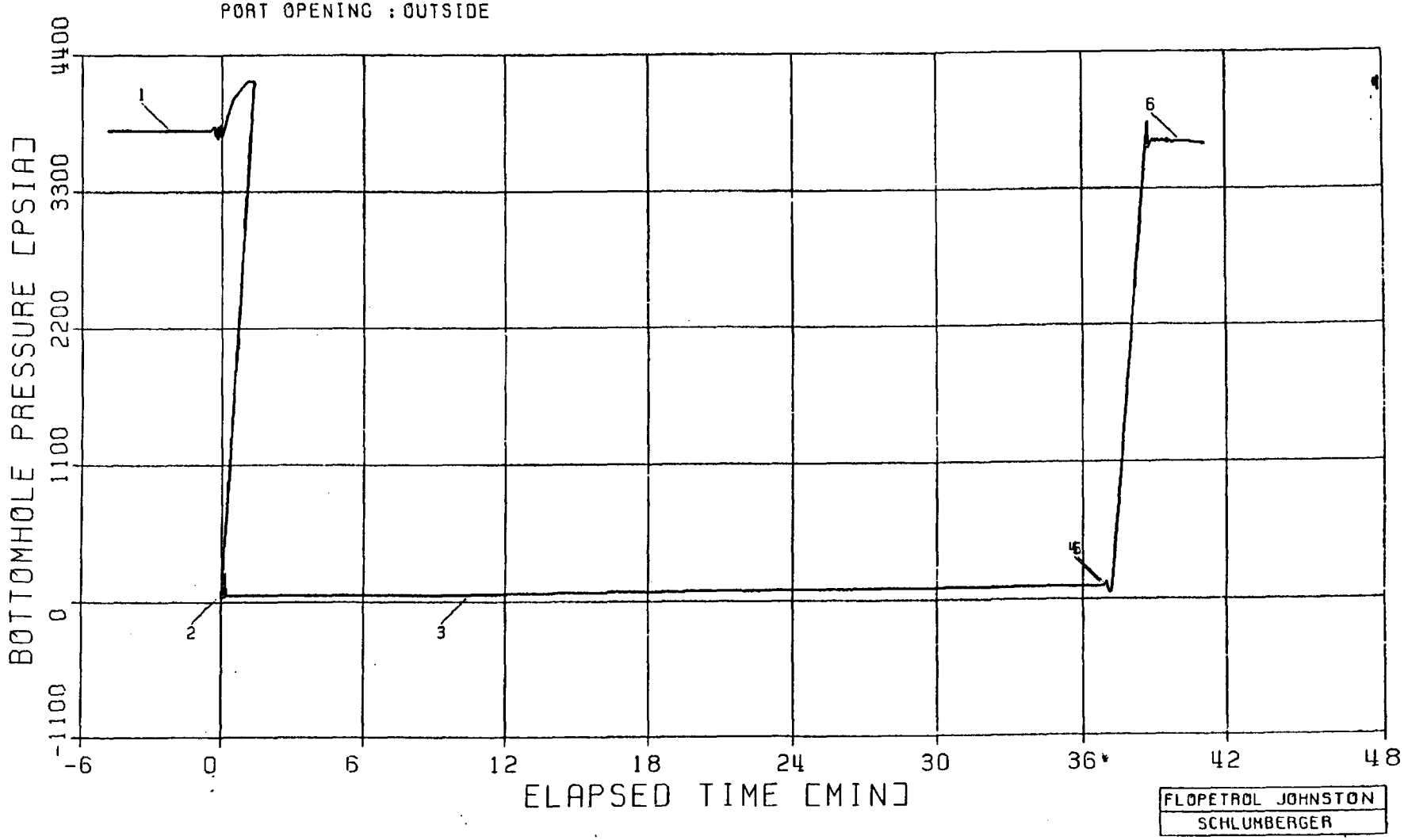
PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	10.51	36.86	26.35	58	107	58	10.51


ΔT (MIN)
0.11
0.17
0.27
0.44
0.71
1.2
2.0
3.5
7.0
18
∞
HORNER PLOT
FIELD REPORT NO. 54088E
INSTRUMENT NO. J-371
COMPANY : TIPPERARY OIL & GAS CORPORATION
WELL : JONS STATE 4 #1
SHUTIN #1 : FINAL FLOW PRESSURE (P_{WF}) : 58 PSIA
PLOT ELAPSED TIME RANGE: 10.7 TO 36.9 MIN
PLOT ΔT TIME RANGE: 0.2 TO 26.4 MIN
PRODUCING TIME (T_P) : 10.5 MIN
SHUTIN PRESSURE [PSIA]
0
20
40
60
80
100
120
140
160
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
LOG $\left[\frac{T_P+\Delta T}{\Delta T}\right]$
FLOPETROL JOHNSTON
SCHLUMBERGER

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 54088E
INSTRUMENT NO. J-371
DEPTH : 8673FT
CAPACITY : 6400 PSI
PORT OPENING : OUTSIDE

COMPANY : TIPPERARY OIL & GAS CORPORATION
WELL : JONS STATE 4 #1



* WELL TEST DATA PRINTOUT *

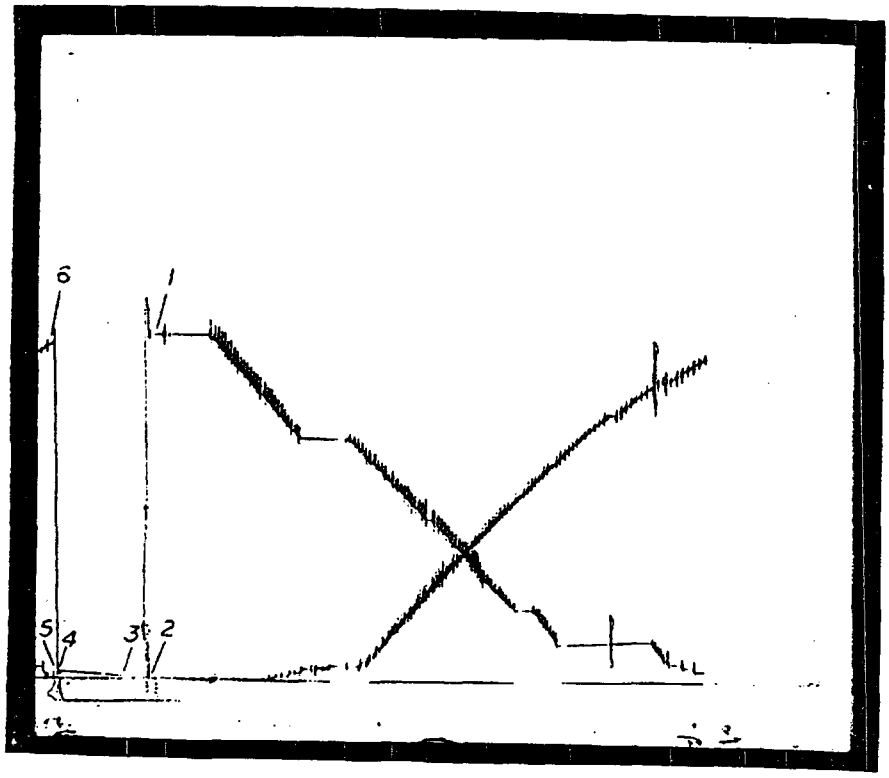
FIELD REPORT # : 5408SE

COMPANY : TIPPERARY OIL & GAS CORPORATION
WELL : JONS STATE 4 #1

INSTRUMENT # : J-371
CAPACITY [PSI] : 6400.
DEPTH [FT] : 8673.0
PORT OPENING : OUTSIDE
TEMPERATURE [DEG F] : 138.0

MNEMONICS : ET = ELAPSED TIME ..... [MIN]
PW = BOTTOMHOLE PRESSURE ..... [PSIA]

#	CODE	EXPLANATION	ET	PW
1	1	HYDROSTATIC MUD	-2.21	3792.26
2	2	START FLOW	0.00	57.42
3	6	END FLOW & START SHUT-IN	10.51	57.74
4	5	END SHUT-IN	36.86	106.76
5	23	CLOCK STOPPED	37.01	101.63
6	1	HYDROSTATIC MUD	40.18	3676.92



Xtra

FLOPETROL JOHNSTON

Schlumberger

technical report

COMPANY Tipperary Oil & Gas Corporation WELL Jons State 4-#1 (Pennsylvanian) TEST NO. Three COUNTY Lea STATE New Mexico

10460' to 10503'

Field Report # 48022E

REPORT NO: 48022E

TEST DATE: 18-Oct- 84

WELL PERFORMANCE TESTING™ REPORT

A Production System Analysis (NODAL™)
Based on Model Verified™ Interpretation

FLOPETROL JOHNSTON
Schlumberger

PAGE NO: 1

Company: Tipperary Oil & Gas Corporation

Well: Jons State 4-#1

TEST IDENTIFICATION

Test Type	MFE Open Hole
Test No.	Three
Formation	Pennsylvanain
Test Interval (ft)	10460 to 10503
Reference Depth	Kelly Bushing

WELL LOCATION

Field	Wildcat
County	Lea
State	Texas
Sec/Twn/Rng	4/17s/37e
Elevation (ft)	3783

HOLE CONDITIONS

Total Depth (MD/TVD) (ft)	10503
Hole Size (in)	7 7/8
Csg/Liner I.D. (in)	—
Perf'd Interval/Net Pay (ft)	-/29
Shot Density/Diameter (in)	—

MUD PROPERTIES

Mud Type	Gel/Dispac
Mud Weight (lb/gal)	8.6
Mud Resistivity (OHM-M)	1.91 @ 58°F
Filtrate Resistivity (OHM-M)	—
Filtrate Chlorides (PPM)	2,100

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi)	4736
Gas Cushion Type	None
Surface Pressure (psi)	—
Liquid Cushion Type	None
Cushion Length (ft)	—

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in)	10020 / 3.83
Collar Length (ft)/I.D. (in)	401 / 2.25
Packer Depth(s) (ft)	10454 / 10460
BH Choke Size (in)	15/16
Gauge Depth (ft)/Type	10497 / J-200

NET PIPE RECOVERY

Volume	Fluid Type	Properties
2520 Feet	Oil/ S. Gas Cut	API 35 @ 60°F
400 Feet	Mud Cut/Sulfur Water	Res. .25 @ 60°F
		15,000 PPM

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
0.75 ft3	Gas	
300 cc	Oil	API 35 @ 60°F
1350 cc	Water	15,000 PPM
Pressure: 250	GOR: 196	GLR: 72

INTERPRETATION RESULTS

Model of Behavior	
Fluid Type Used for Analysis	
Reservoir Pressure (psi)	
Transmissibility (md-ft/cp)	
Effective Permeability (md)	
Skin Factor/Damage Ratio	
Storativity ratio	
Interporosity Flow Coeff	
Distance To An Anomaly (ft)	
Radius of Investigation (ft)	
Potentiometric Surface (ft)	

ROCK/FLUID/WELLBORE PROPERTIES

Oil API	
Basic Solids	
Gas Gravity	
Water Cut (%)	
Viscosity (cp)	
Total Compressibility (1/psi)	
Porosity (%)	6
Reservoir Temperature (F)	160

PRODUCTION RATE DURING TEST:

COMMENTS:

FLOPETROL JOHNSTON

Schlumberger

DST EVENT SUMMARY

Field Report # 48022E

DATE (M/D/Y)	TIME (HR:MIN)	EVENT E.T. (MIN)	EVENT DESCRIPTION	SURFACE PRESSURE (PSIG)	FLOOR MANIFOLD CHOKE SIZE (INCH)
10-18-84	1133	—	SET PACKER	-	-
	1135	—	OPENED TEST TOOL FOR INITIAL FLOW	-	Bubble Hose
	1142			50	"
	1143	—	CLOSED TEST TOOL FOR INITIAL SHUT-IN	-	"
	1148		Gas To Surface	-	"
	1242		Finished Shut-in	-	"
	1243	—	OPENED TEST TOOL FOR FINAL FLOW	25	"
	1245			28	"
	1250			25	"
	1255			23	"
	1300			20	"
	1305			17	"
	1310			15	"
	1315			13	"
	1320			11	"
	1330			11	"
	1345	—	CLOSED TEST TOOL FOR FINAL SHUT-IN	10	"
	1647	—	FINISHED FINAL SHUT-IN	-	-
	1651	—	UNSEATED PACKER	-	-
		—	REVERSED OUT		
		—	BEGAN TRIP OUT OF HOLE		

WELL TEST DATA PRINTOUT

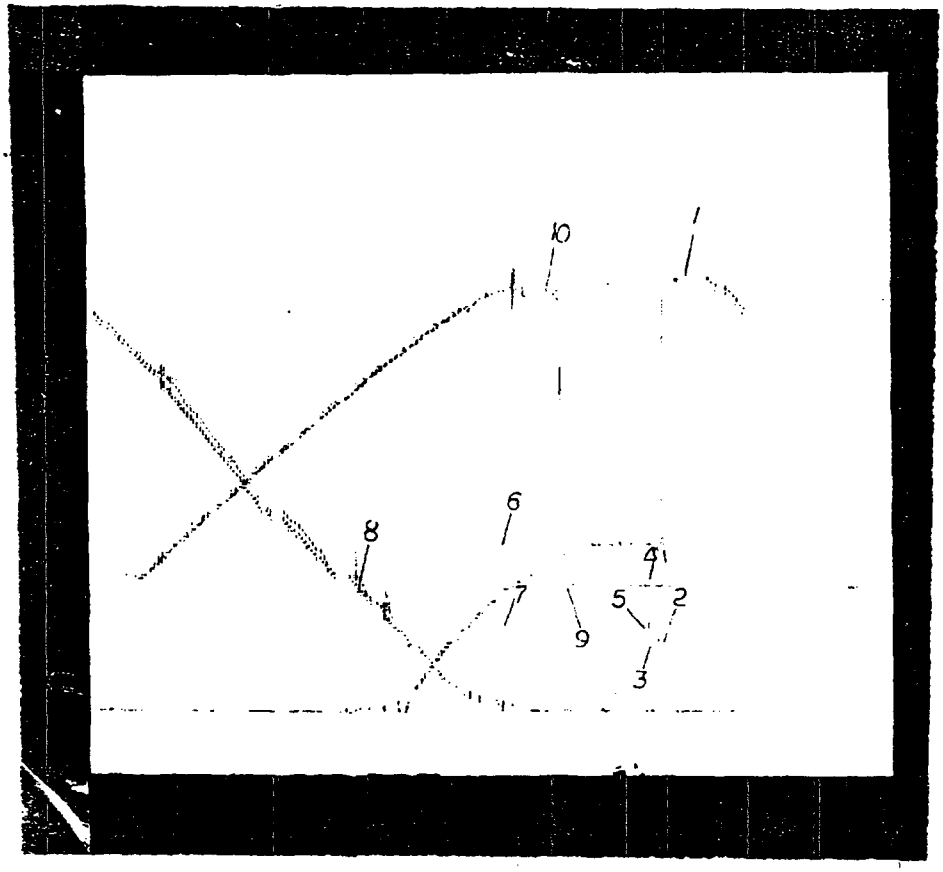
FIELD REPORT # : 480226

COMPANY : TIPPERARY OIL & GAS COMPANY
WELL : JONES STATE # #1

INSTRUMENT # : J-2159
CAPACITY [PSI] : 6400.
DEPTH [FT] : 10497.0
PORT OPENING : INSIDE
TEMPERATURE [DEG F] : 160.0

MNEMONICS : ET = ELAPSED TIME ..... [MIN]
PW = BOTTOMHOLE PRESSURE ..... [PSIA]

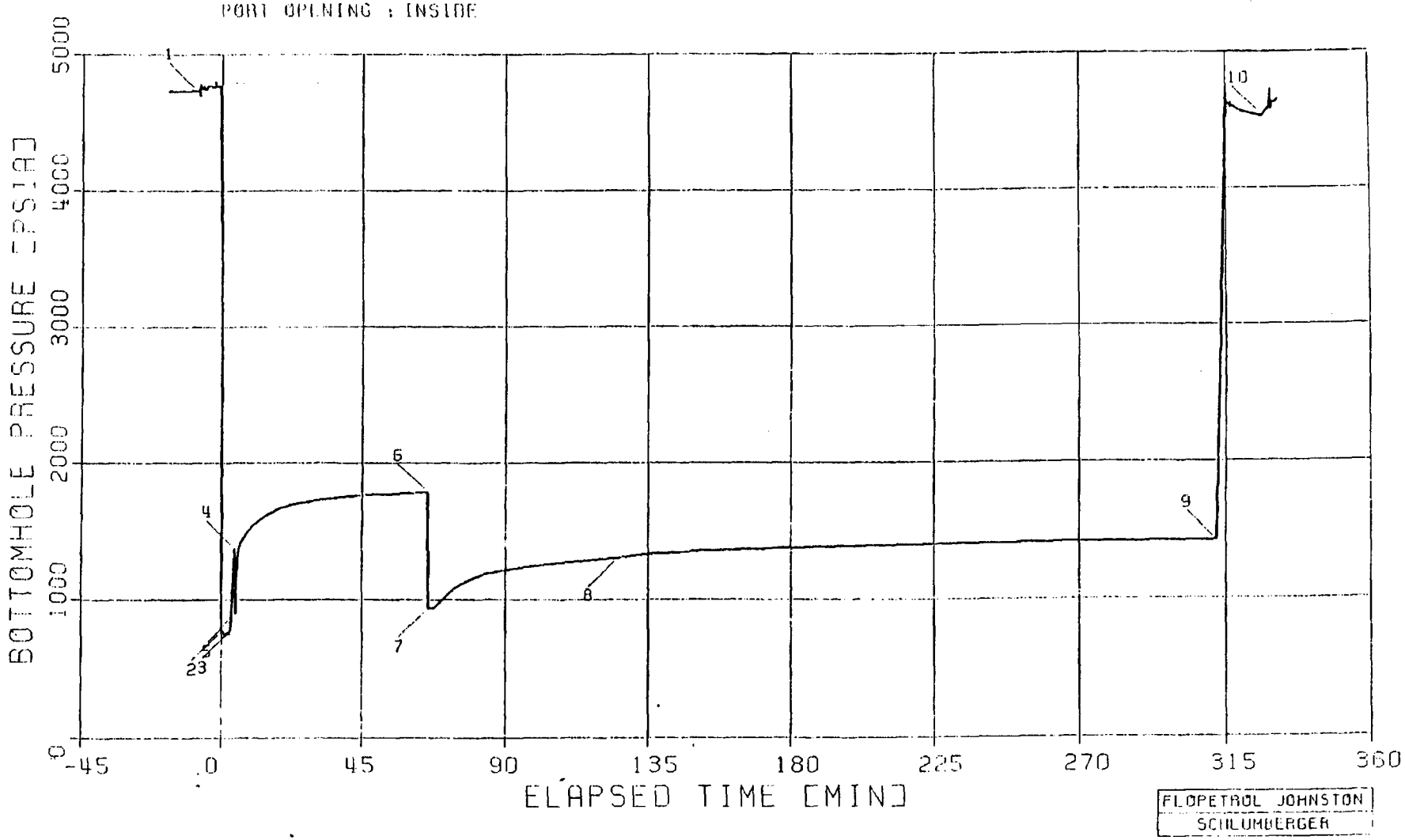
#	CODE	EXPLANATION	ET	PW
1	1	HYDROSTATIC MUD	-8.21	4935.55
2	2	START FLOW	0.00	773.01
3	3	END FLOW	3.26	786.09
4	22	CYCLED TOOL	4.36	1377.13
5	4	START SHUT-IN	4.63	901.23
6	5	END SHUT-IN	65.51	1787.01
7	2	START FLOW	65.76	940.15
8	6	END FLOW & START SHUT-IN	125.69	1306.32
9	5	END SHUT-IN	312.00	1427.53
10	1	HYDROSTATIC MUD	326.56	4535.88

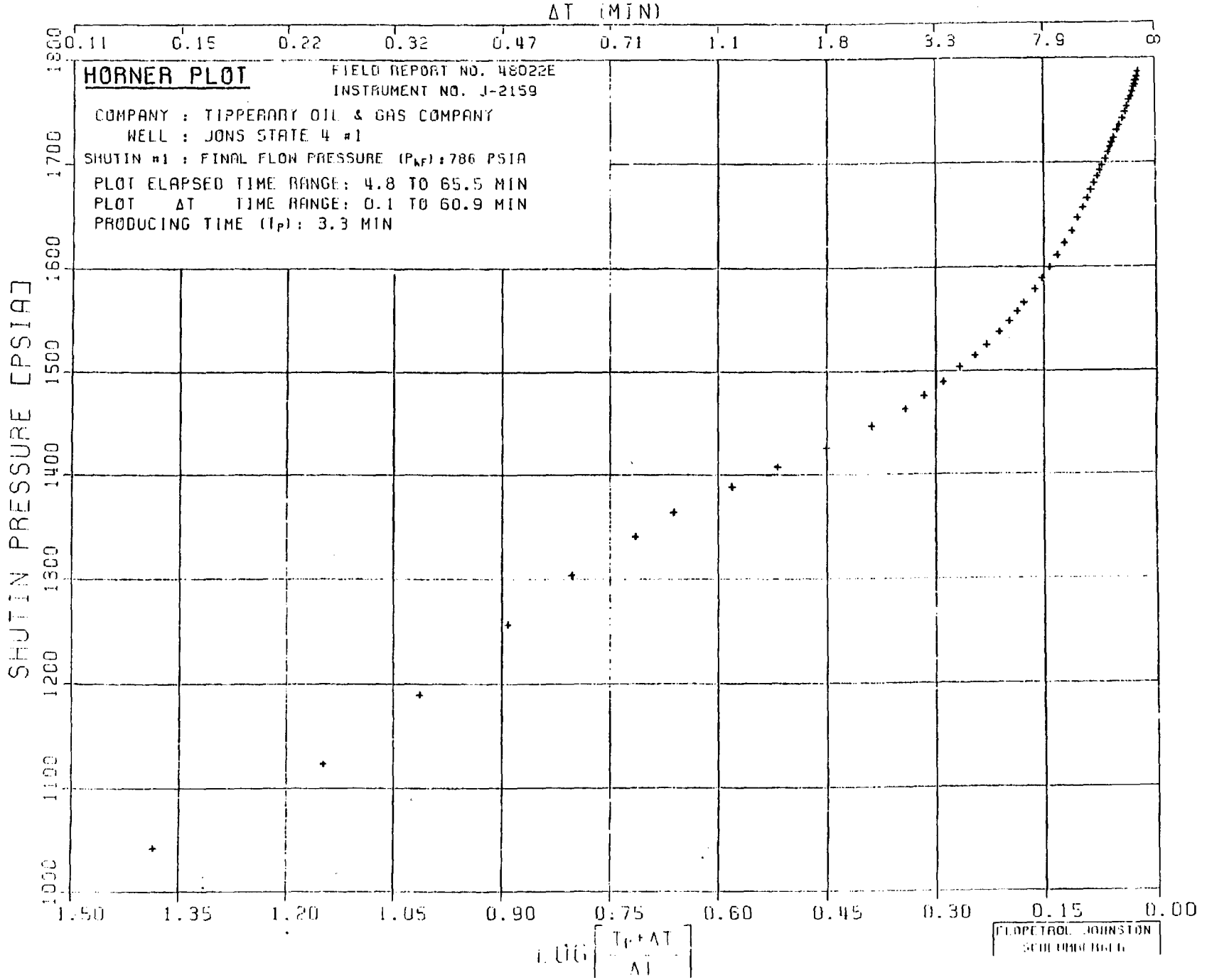


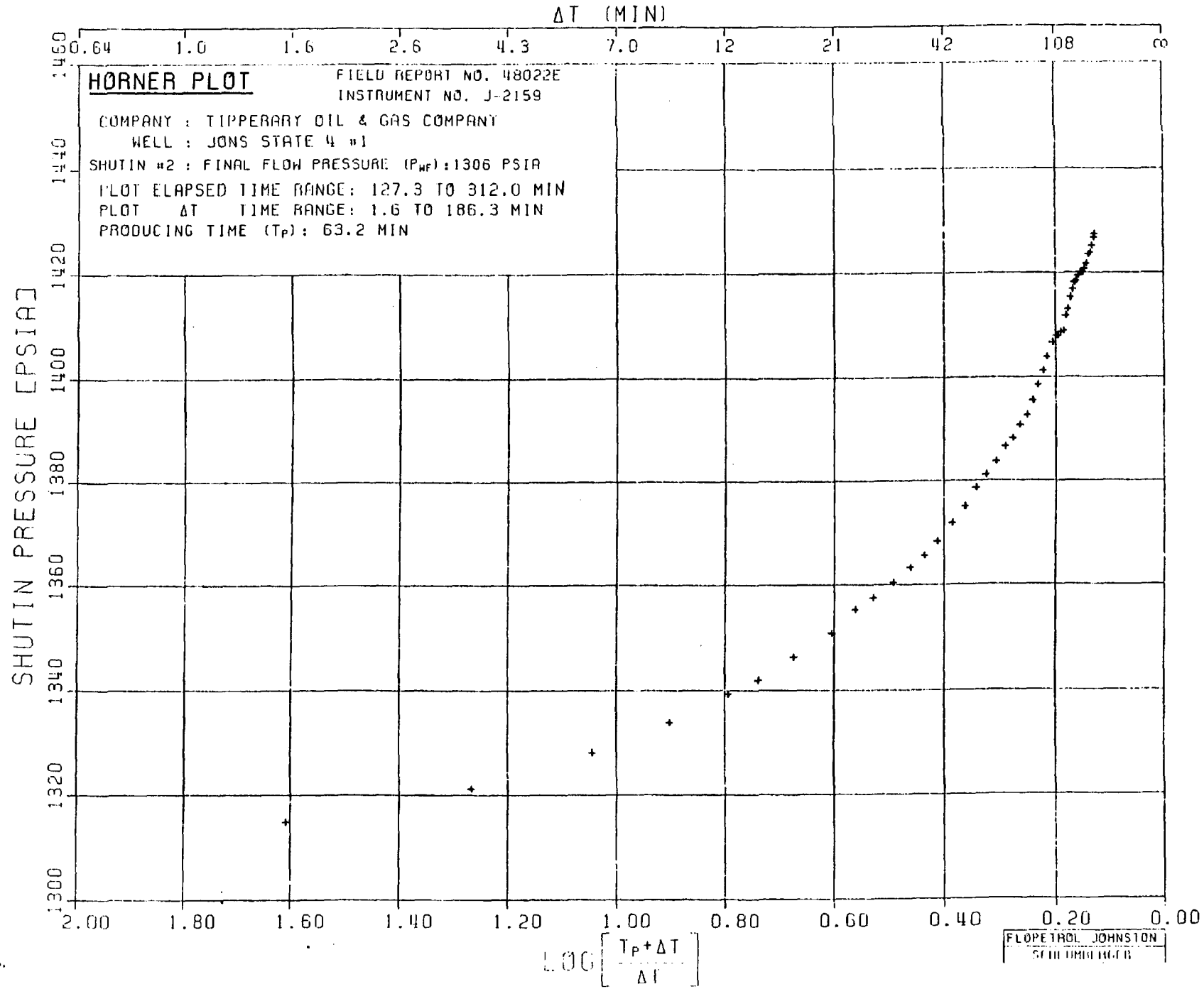
BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 48022L
INSTRUMENT NO. J-2159
DEPTH : 10497FT
CAPACITY : 6400 PSI
PORT OPENING : INSIDE

COMPANY : TIPPERARY OIL & GAS COMPANY
WELL : JONS STATE 4 #1



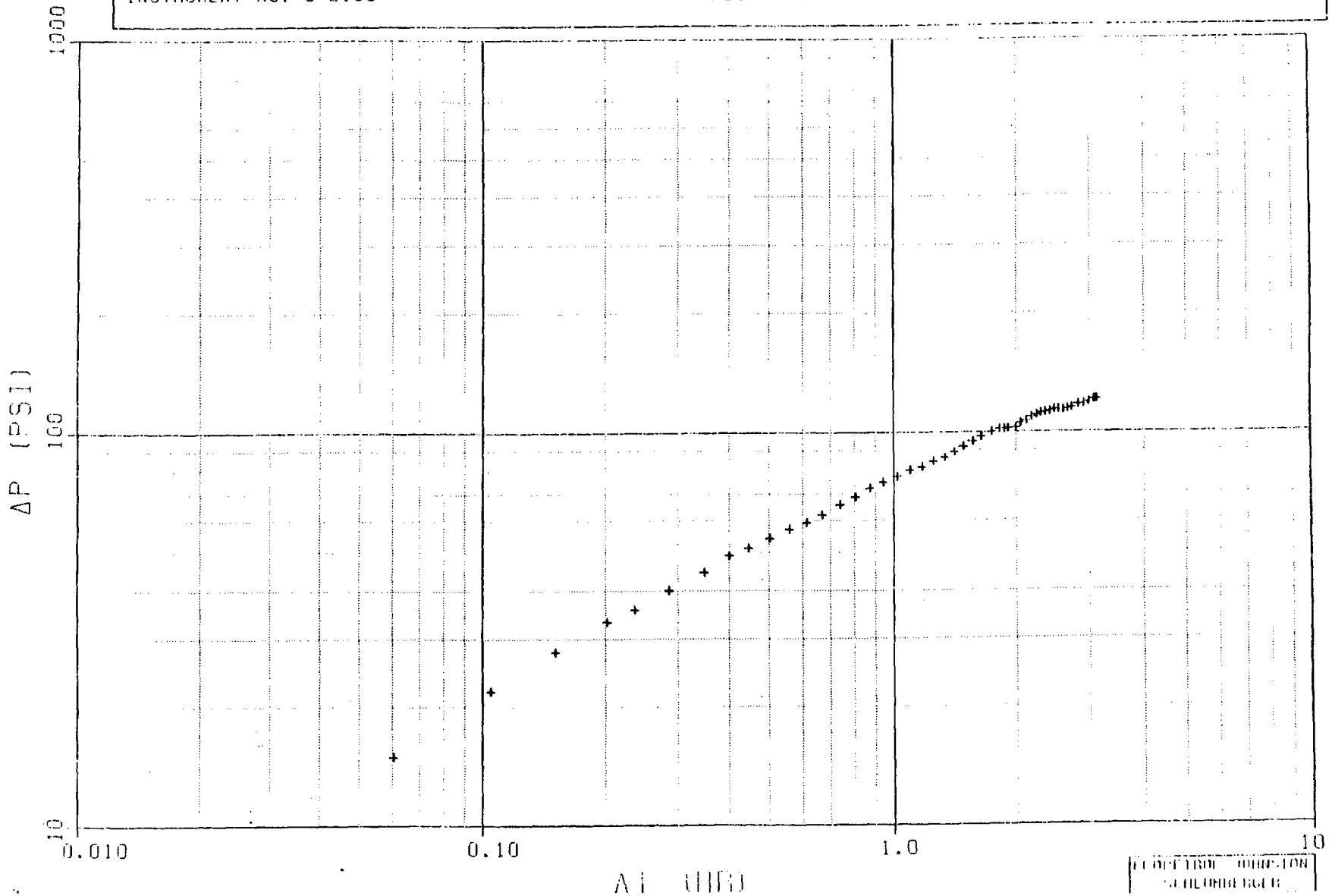

ΔT (MIN)
0.11
0.15
0.22
0.32
0.47
0.71
1.1
1.8
3.3
7.9
∞
HORNER PLOT
FIELD REPORT NO. 48022E
INSTRUMENT NO. J-2159
COMPANY : TIPPERARY OIL & GAS COMPANY
WELL : JONS STATE 4 #1
SHUTIN #1 : FINAL FLOW PRESSURE (P_{WF}) : 786 PSIA
PLOT ELAPSED TIME RANGE: 4.8 TO 65.5 MIN
PLOT ΔT TIME RANGE: 0.1 TO 60.9 MIN
PRODUCING TIME (t_p): 3.3 MIN
SHUTIN PRESSURE [PSIA]
1800
1700
1600
1500
1400
1300
1200
1100
1000
1.50
1.35
1.20
1.05
0.90
0.75
0.60
0.45
0.30
0.15
0.00
LOG [(Tp+ΔT)/ΔT]
FLOPETROL JOHNSTON
SCHLUMBERGER


ΔT (MIN)
0.64
1.0
1.6
2.6
4.3
7.0
12
21
42
108
∞
HORNER PLOT
FIELD REPORT NO. 48022E
INSTRUMENT NO. J-2159
COMPANY : TIPPERARY OIL & GAS COMPANY
WELL : JONS STATE 4 #1
SHUTIN #2 : FINAL FLOW PRESSURE (P_{WF}) : 1306 PSIA
PLOT ELAPSED TIME RANGE: 127.3 TO 312.0 MIN
PLOT ΔT TIME RANGE: 1.6 TO 186.3 MIN
PRODUCING TIME (T_P): 63.2 MIN
SHUTIN PRESSURE (PSIA)
1460
1440
1420
1400
1380
1360
1340
1320
1300
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
LOG [(Tp+ΔT)/ΔT]
FLOPETROL JOHNSTON
SCHLUMBERGER

LOG LOG PLOT

COMPANY : TIPPERARY OIL & GAS COMPANY
WELL : JONS STATE 4 #1
FIELD REPORT NO. 48022E
INSTRUMENT NO. J-2159

SHUTIN #2 :
FINAL FLOW PRESSURE (P_{WF}): 1306 PSIA
PLOT ELAPSED TIME RANGE: 2.16 TO 5.20 HR
PLOT ΔT TIME RANGE: 0.06 TO 3.11 HR



WELL TEST DATA PRINTOUT

FIELD REPORT # : 480326

INSTRUMENT # : J-2159
CAPACITY [PSI] : 6400.
DEPTH [FT] : 10497.0
PORT OPENING : INSIDE
TEMPERATURE [DEG F] : 160.0

COMPANY : TIPPERARY OIL & GAS COMPANY
WELL : JOHS STATE 4 #1

LABEL POINT INFORMATION

#	TIME OF DAY HR:MN:SS	DATE MO-DA	EXPLANATION	ELAPSED TIME,MIN	BOT HOLE PRESSURE PSIA
1	11:26:47	10-0C	HYDROSTATIC MUD	-8.21	4736
2	11:35: 0	10-0C	START FLOW	0.00	773
3	11:38:16	10-0C	END FLOW	3.26	786
4	11:39:22	10-0C	CYCLED TOOL	4.36	1377
5	11:39:38	10-0C	START SHUT-IN	4.63	901
6	12:40:31	10-0C	END SHUT-IN	65.51	1787
7	12:40:46	10-0C	START FLOW	65.76	940
8	13:40:41	10-0C	END FLOW & START SHUT-IN	125.69	1306
9	16:47: 0	10-0C	END SHUT-IN	312.00	1428
10	17: 1:34	10-0C	HYDROSTATIC MUD	326.56	4536

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
1	0.00	3.26	3.26	773	786
2	65.76	125.69	59.93	940	1306

SUMMARY OF SHUTIN PERIODS

PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	4.63	65.51	60.88	901	1787	786	3.26
2	125.69	312.00	186.31	1306	1428	1306	63.19

TEST PHASE : FLOW PERIOD # 1

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
11:35: 0	18-DC	0.00	0.00	773
11:38:16	18-DC	3.26	3.26	786

TEST PHASE : SHUTIN PERIOD # 1
FINAL FLOW PRESSURE [PSIA] = 786
PRODUCING TIME [MIN] = 3.26

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
11:39:38	18-DC	4.63	0.00	901	115	
11:40:38	18-DC	5.63	1.00	1373	587	0.629
11:41:38	18-DC	6.63	2.00	1436	650	0.420
11:42:38	18-DC	7.63	3.00	1475	689	0.319
11:43:38	18-DC	8.63	4.00	1308	722	0.259
11:44:38	18-DC	9.63	5.00	1533	747	0.218
11:45:38	18-DC	10.63	6.00	1556	770	0.188
11:46:38	18-DC	11.63	7.00	1576	790	0.166
11:47:38	18-DC	12.63	8.00	1594	807	0.148
11:48:38	18-DC	13.63	9.00	1609	823	0.134
11:49:38	18-DC	14.63	10.00	1623	837	0.123
11:51:38	18-DC	16.63	12.00	1648	862	0.104
11:53:38	18-DC	18.63	14.00	1667	881	0.091
11:55:38	18-DC	20.63	16.00	1684	898	0.081
11:57:38	18-DC	22.63	18.00	1696	910	0.072
11:59:38	18-DC	24.63	20.00	1706	920	0.066
12: 1:38	18-DC	26.63	22.00	1715	929	0.060
12: 3:38	18-DC	28.63	24.00	1723	937	0.055
12: 5:38	18-DC	30.63	26.00	1731	945	0.051
12: 7:38	18-DC	32.63	28.00	1735	949	0.048
12: 9:38	18-DC	34.63	30.00	1740	954	0.045
12:14:38	18-DC	39.63	35.00	1731	965	0.039
12:19:38	18-DC	44.63	40.00	1760	974	0.034
12:24:38	18-DC	49.63	45.00	1768	982	0.030
12:29:38	18-DC	54.63	50.00	1774	988	0.027
12:34:38	18-DC	59.63	55.00	1779	993	0.025
12:39:38	18-DC	64.63	60.00	1786	1000	0.023
12:40:31	18-DC	65.51	60.88	1787	1001	0.023

TEST PHASE : FLOW PERIOD # 2

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
12:40:46	18-0C	65.76	0.00	940
12:45:46	18-0C	70.76	5.00	1013
12:50:46	18-0C	75.76	10.00	1108
12:55:46	18-0C	80.76	15.00	1167
13: 0:46	18-0C	85.76	20.00	1203
13: 5:46	18-0C	90.76	25.00	1226
13:10:46	18-0C	95.76	30.00	1244
13:15:46	18-0C	100.76	35.00	1258
13:20:46	18-0C	105.76	40.00	1271
13:25:46	18-0C	110.76	45.00	1282
13:30:46	18-0C	115.76	50.00	1291
13:35:46	18-0C	120.76	55.00	1299
13:40:41	18-0C	125.69	59.93	1306

TEST PHASE : SHUTIN PERIOD # 2
FINAL FLOW PRESSURE [PSIA] = 1306
PRODUCING TIME [MIN] = 63.19

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
13:40:41	18-0C	125.69	0.00	1306	0	
13:41:41	18-0C	126.69	1.00	1312	5	1.807
13:42:41	18-0C	127.69	2.00	1316	10	1.613
13:43:41	18-0C	128.69	3.00	1319	13	1.344
13:44:41	18-0C	129.69	4.00	1322	16	1.225
13:45:41	18-0C	130.69	5.00	1325	19	1.135
13:46:41	18-0C	131.69	6.00	1328	21	1.062
13:47:41	18-0C	132.69	7.00	1330	23	1.001
13:48:41	18-0C	133.69	8.00	1332	26	0.949
13:49:41	18-0C	134.69	9.00	1334	28	0.904
13:50:41	18-0C	135.69	10.00	1336	29	0.864
13:52:41	18-0C	137.69	12.00	1339	33	0.797
13:54:41	18-0C	139.69	14.00	1342	36	0.741
13:56:41	18-0C	141.69	16.00	1345	39	0.695
13:58:41	18-0C	143.69	18.00	1348	41	0.654
14: 0:41	18-0C	145.69	20.00	1350	44	0.619
14: 2:41	18-0C	147.69	22.00	1353	46	0.588
14: 4:41	18-0C	149.69	24.00	1355	49	0.560
14: 6:41	18-0C	151.69	26.00	1357	51	0.535
14: 8:41	18-0C	153.69	28.00	1359	52	0.513
14:10:41	18-0C	155.69	30.00	1360	54	0.492
14:15:41	18-0C	160.69	35.00	1364	58	0.448
14:20:41	18-0C	165.69	40.00	1368	62	0.412
14:25:41	18-0C	170.69	45.00	1373	66	0.381
14:30:41	18-0C	175.69	50.00	1377	70	0.355

[illegible] SHUT-IN PERIOD # 2
FINAL FLOW PRESSURE [PSIA] = 1394
PRODUCING TIME [MIN] = 63.19

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
14:55:41	18-DC	180.69	55.00	1380	74	0.332
15:00:41	18-DC	185.69	60.00	1383	77	0.312
15:05:41	18-DC	190.69	65.00	1386	80	0.295
15:10:41	18-DC	195.69	70.00	1388	82	0.279
15:15:41	18-DC	200.69	75.00	1391	84	0.265
15: 0:41	18-DC	205.69	80.00	1393	86	0.253
15: 5:41	18-DC	210.69	85.00	1394	89	0.241
15:10:41	18-DC	215.69	90.00	1397	93	0.231
15:15:41	18-DC	220.69	95.00	1402	96	0.221
15:20:41	18-DC	225.69	100.00	1405	98	0.213
15:25:41	18-DC	230.69	105.00	1407	101	0.205
15:30:41	18-DC	235.69	110.00	1408	102	0.197
15:35:41	18-DC	240.69	115.00	1409	102	0.190
15:40:41	18-DC	245.69	120.00	1409	103	0.184
15:45:41	18-DC	250.69	125.00	1413	106	0.178
15:50:41	18-DC	255.69	130.00	1415	109	0.172
15:55:41	18-DC	260.69	135.00	1417	111	0.167
16: 0:41	18-DC	265.69	140.00	1418	112	0.162
16: 5:41	18-DC	270.69	145.00	1420	113	0.157
16:10:41	18-DC	275.69	150.00	1420	114	0.153
16:15:41	18-DC	280.69	155.00	1420	114	0.149
16:20:41	18-DC	285.69	160.00	1421	115	0.145
16:25:41	18-DC	290.69	165.00	1422	116	0.141
16:30:41	18-DC	295.69	170.00	1424	117	0.137
16:35:41	18-DC	300.69	175.00	1424	118	0.134
16:40:41	18-DC	305.69	180.00	1426	119	0.131
16:45:41	18-DC	310.69	185.00	1427	121	0.128
16:47: 0	18-DC	312.00	186.31	1428	121	0.127

LYNES

TECHNICAL SERVICES, Security Life Bl Suite 1350 • 1616 Glenarm • Denver, Colorad 02 • Phone: (303) 573-8027

Contractor	Landis Drilling Co.	Top Choke	1/4"
Rig No.	1	Bottom Choke	1/2"
Spot	1650 FWL & 660 FSL	Size Hole	7 7/8"
Sec.	4	Size Rat Hole	--
Twp.	17S	Size & Wt. D. P.	8 5/8" 32# csg.
Rng.	37E	Size Wt. Pipe	4½" XH 16.60#
Field	Wildcat	I. D. of D. C.	2½"
County	Lea	Length of D. C.	263 Ft.
State	New Mexico	Total Depth	11336 Ft.
Elevation	3795 Ft.	Interval Tested	10935-11090 Ft.
Formation	Upper Strawn	Type of Test	Inflate Straddle

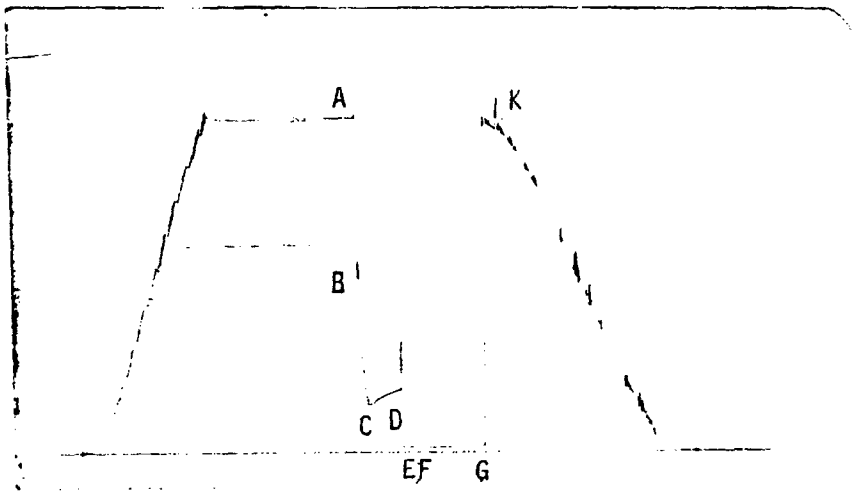
Flow No. 1	20	Min.
Shut-in No. 1	70	Min.
Flow No. 2	30	Min.
Shut-in No. 2	140	Min.
Flow No. 3	--	Min.
Shut-in No. 3	--	Min.
Bottom Hole Temp.	188°F	
Mud Weight	9.0#	
Gravity	--	
Viscosity	36	

Tool opened @ 1:30 p.m.

Outside Recorder

PRD Make Kuster K-3
No. 22722 Cap. 6625 @ 10943

		Press Corrected
Initial Hydrostatic	A	5113
Final Hydrostatic	K	4918
Initial Flow	B	2663
Final Initial Flow	C	719
Initial Shut-in	D	948
Second Initial Flow	E	82
Second Final Flow	F	74
Second Shut-in	G	90
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--



Lynes Dist. Hobbs, New Mexico
Our Tester Charlie Freeburg
Witnessed By Eric Bayley

Did Well Flow – Gas No Oil No Water No

Ran 2000 psi nitrogen cushion

RECOVERY IN PIPE.

20 Ft. Slightly gas-cut mud = .12 Bbls

Blow Description:

1st Flow: Tool opened for preflow and bled nitrogen cushion off to 350 psi (bled remainder off cushion during initial shut-in).

2nd Flow: Tool opened with a very weak blow, decreasing to dead to 7 minutes.

Comments: The test results indicate a mechanically successful test. The flow and shut-in curves suggest virtually no permeability within the zone tested.

Operator Tipperary Oil & Gas Corporation
Address P.O. Box 3179 Midland, TX 79702
Well Name and No. [redacted]
Ticket No. 02278
Date 10-26-84
No. Final Copies 16

TIPPERARY OIL & GAS CORP.
DST#: 4
JONS STATE 4 #1
10935 - 11090ft.

Location: SEC. 4 T17S R37E
Test Type: INFLATE STRADDLE
Formation: UPPER STRAWN

Recorder Number: 22722
Recorder Depth: 10943

SAMPLE DATA

SAMPLE CHAMBER:

Capacity of sample chamber	2000	cc
Volume of sample.....	2000	cc
Pressure in sampler.....	40	psig
Where sampler was drained...	on location	

Sampler contained:

Mud	2000	cc
Gas	trace	cu-ft

RESISTIVITY DATA:

Top.....:	75 000 PPM NACL
Sampler.....:	75 000 PPM NACL
Mud pit.....:	16 000 PPM NACL

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

5a. Indicate Type of Lease: State [X] Fee [ ]

5. State Oil & Gas Lease No.: V-927

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT —" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL [X] GAS WELL [ ] OTHER-

7. Unit Agreement Name: --

2. Name of Operator: Tipperary Oil & Gas Corporation

8. Farm or Lease Name: Jons 4 State

3. Address of Operator: P. O. Box 3179 Midland, Texas 79702

9. Well No.: 1

4. Location of Well: UNIT LETTER N, 560 FEET FROM THE South LINE AND 1650 FEET FROM THE West LINE, SECTION 4, TOWNSHIP 17S, RANGE 37E, NMPM.

10. Field and Pool, or Wildcat: Wildcat

15. Elevation (Show whether DF, RT, GR, etc.): 3780' (GL)

12. County: Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK [ ]	PLUG AND ABANDON [ ]	REMEDIAL WORK [ ]	ALTERING CASING [ ]
TEMPORARILY ABANDON [ ]		COMMENCE DRILLING OPNS. [ ]	PLUG AND ABANDONMENT [ ]
PULL OR ALTER CASING [ ]	CHANGE PLANS [ ]	CASING TEST AND CEMENT JOB [X]	
OTHER [ ]		OTHER [ ]	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Ran 8-5/8" casing from surface to 4202' as follows:

8-5/8" 24# J-55 LT&C 0 to 2000'
8-5/8" 32# J-55 LT&C 2000 to 4202'

Cemented with 1750 sacks Howco lite with 15# salt + 5# gilsonite + 1/4#/sack flocele. Tail-in with 200 sacks Class neat. Plug down at 3:45 PM 9/28/84. Circulated 150 sacks cement. WOC 12 hours and pressure tested with 1000 psi for 30 minutes, tested O.K.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Joe W Younger TITLE Joe W. Younger Production Operations Mgr. DATE 10-10-84

ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE _____ DATE OCT 12 1984

CONDITIONS OF APPROVAL, IF ANY:

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

5a. Indicate Type of Lease: State [X] Fee [ ]

5. State Oil & Gas Lease No.: V-927

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT —" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL [X] GAS WELL [ ] OTHER-

7. Unit Agreement Name: ---

2. Name of Operator: Tipperary Oil & Gas Corporation

8. Farm or Lease Name: Jons 4 State

3. Address of Operator: P. O. Box 3179 Midland, Texas 79702

9. Well No.: 1

4. Location of Well: UNIT LETTER N, 560 FEET FROM THE South LINE AND 1650 FEET FROM THE West LINE, SECTION 4, TOWNSHIP 17S, RANGE 37E, NMPM.

10. Field and Pool, or Wildcat: Wildcat

15. Elevation (Show whether DF, RT, GR, etc.): 3780' (GL)

12. County: Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK [ ]	PLUG AND ABANDON [ ]	REMEDIAL WORK [ ]	ALTERING CASING [ ]
TEMPORARILY ABANDON [ ]		COMMENCE DRILLING OPNS. [ ]	PLUG AND ABANDONMENT [ ]
PULL OR ALTER CASING [ ]	CHANGE PLANS [ ]	CASING TEST AND CEMENT JOB [X]	
OTHER [ ]		OTHER [ ]	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Cemented 13-3/8" 68# J-55 casing at 397' with 420 sacks Class C with 2% CaCl. Plug down at 9:30 PM 9/22/84. Circulated 60 sacks cement. WOC 12 hours. Presssure tested with 500#, tested O.K.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Joe W Younger TITLE Joe W. Younger Production Operations Mgr. DATE 10-10-84

APPROVED BY ORIGINAL SIGNED BY JERRY SEXTON DISTRICT I SUPERVISOR TITLE _____ DATE OCT 12 1984

CONDITIONS OF APPROVAL, IF ANY:

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease STATE [XX] FEE [ ]

5. State Oil & Gas Lease No. V-927

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

b. Type of Well: DRILL [X] DEEPEN [ ] PLUG BACK [ ]
OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [XX] MULTIPLE ZONE [ ]

7. Unit Agreement Name

8. Farm or Lease Name: Jons ~~State~~ 4 State

2. Name of Operator: Tipperary Oil & Gas Corporation

9. Well No.: 1

3. Address of Operator: Box 3179, Midland, TX 79702

10. Field and Pool, or Wildcat: UNDESIGNATED

4. Location of Well: UNIT LETTER N LOCATED 560 FEET FROM THE South LINE AND 1650 FEET FROM THE West LINE OF SEC. 4 TWP. 17S RGE. 37E NMPM

12. County: LEA

19. Proposed Depth	19A. Formation	20. Rotary or C.T.
11,400	Atoka	Rotary

21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor	22. Approx. Date Work will start
3780' (GL)	Blanket	Landis Drilling Co.	7-18-84

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17-1/2"	13-3/8"	48#	400'	350	Circulate
11 "	8-5/8"	24# & 32#	4200'	1100	Circulate
7-7/8"	5-1/2"	17#	11,100'	540	8750

Double hydraulic 10",5000# & Hydril 5000# annular preventors with accumulator. Closing unit on ground and floor.

NOTE: Strawn oil is primary objective. Well will be drilled to sufficient depth to test the Atoka.

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 1/16/85
UNLESS DRILLING UNDERWAY

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed Joe W Thomason Title Production Operations Mgr. Date 7-13-84

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON
APPROVED BY DISTRICT I SUPERVISOR TITLE DATE JUL 17 1984

CONDITIONS OF APPROVAL, IF ANY:

NE EXICO OIL CONSERVATION COMMISSIC

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator	Lease	Well No.
TIPPERARY OIL & GAS CORP.	JONS ~~STATE~~ 4 State	1

Unit Letter	Section	Township	Range	County
N	4	17 SOUTH	37 EAST	LEA

Actual Footage Location of Well: 560 feet from the SOUTH line and 1650 feet from the WEST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3779.7	Strawn	Wildcat	40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

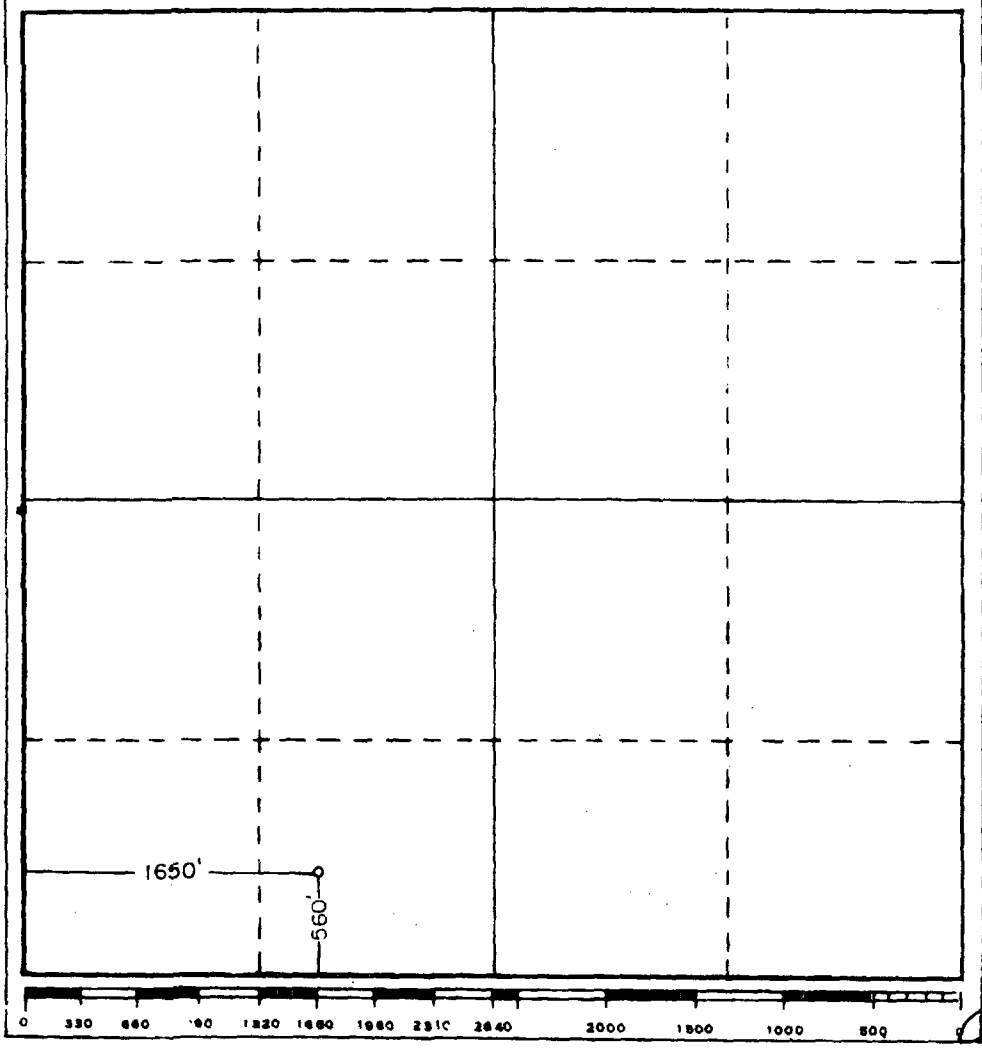
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Joe W Younger

Name: Joe W. Younger

Position: Production Operations Mgr.

Company: Tipperary Oil & Gas Corp.

Date: 7-13-84

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: JULY 7, 1984

Registered Professional Engineer and/or Land Surveyor

John W West

Certificate No. JOHN W. WEST, 676
RONALD J. EIDSON, 3239