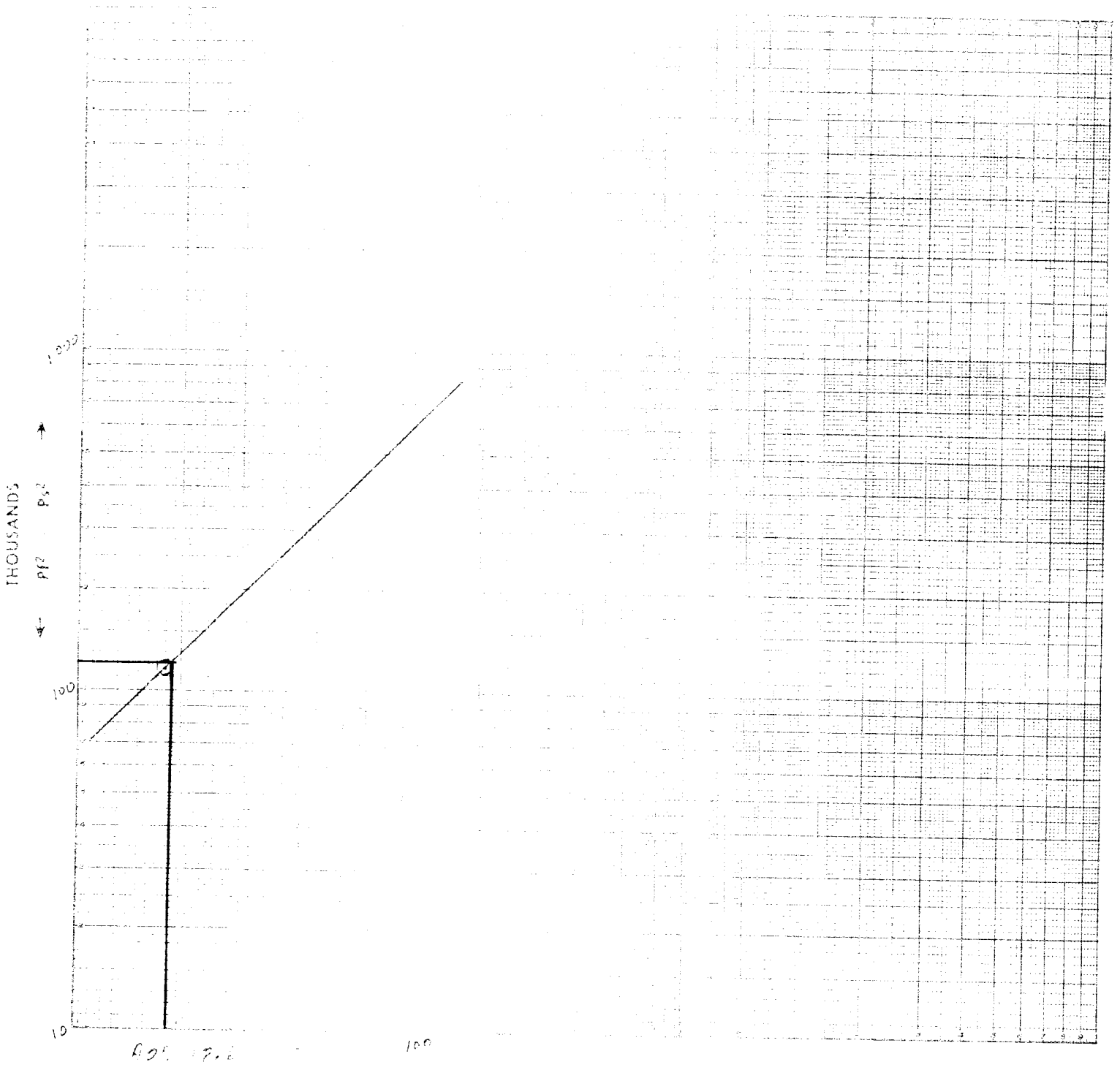


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test <input type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special				Test Date 5-8-90		RECOMPLETION									
Company SHELL WESTERN E&P INC.				Connection		1-PT TEST									
Pool No. EUNICE B-T-D OIL & GAS TUBB (PRORATED GAS)				Formation TUBB		Unit NORTHEAST DRINKARD									
Completion Date 4-02-90		Total Depth 7370'		Plug Hole 6450'		Elevation 3368' GR									
Casing Size 5-1/2"		Wt. 14, 15.5		Set At 4.95 7370'		Perforations: From 6130 To 6390									
Tubg. Size 2-3/8"		Wt. 4.7		Set At 1.995 6388'		Perforations: From To									
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Factor Set At -----		County LEA									
Producing Thru TBG		Reservoir Temp. °F 99° @ 6260		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2									
L 6260		H -----		G _g .806		% CO ₂ 8.0									
				% N ₂ 1.84		% H ₂ S 0									
				Prorator BARTON		Meter Run 2.067									
						Taps FLG									
FLOW DATA				TUBING DATA		CASING DATA		Duration of Flow							
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow				
S1	30 HRS						334	90°							
1.	2.067 X 0.500			45.0	3	78°	48.0	78°			24 HRS				
2.															
3.															
4.															
5.															
RATE OF FLOW CALCULATIONS															
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd								
1	1.189	13.21	58.2	.9831	1.114	1.015	18								
2															
3															
4															
5															
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>18 MCF/1.6 BBLS</u> Mcf/bbl.										
1	.08	538	1.32	.970	A.P.I. Gravity of Liquid Hydrocarbons <u>41 @ 86° = 38.8</u> Deg.										
2					Specific Gravity Separator Gas <u>.306</u> <u>XXXXXXXXXX</u>										
3					Specific Gravity Flowing Fluid <u>XXXXXXXX</u> <u>.927</u>										
4					Critical Pressure <u>696</u> P.S.I.A. <u>692</u> P.S.I.A.										
5					Critical Temperature <u>408</u> °R <u>447</u> °R										
	<u>347.2</u>	<u>P_c² 120.5</u>													
NO.	P _r ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 1.033$ (2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.033$										
1	3.745		3.775	116.7											
2															
3					AOF = Q $\left[\frac{h_w^2}{P_r^2 - P_w^2} \right]^n = 18.6$										
4															
5															
Absolute Open Flow <u>18.6</u> Mcfd @ 15.025					Angle of Slope <u>45</u>			Slope, n <u>1.000</u>							
Remarks:															
Approved By Commission:				Conducted By: <u>R. E. Ashmore</u>				Calculated by: <u>R. E. Ashmore</u>				Checked By:			

Lee ... Dinkard
 ...
 1.300
 1-6
 8-



RECEIVED

JUN 08 1990

OCD
HOBBS OFFICE

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

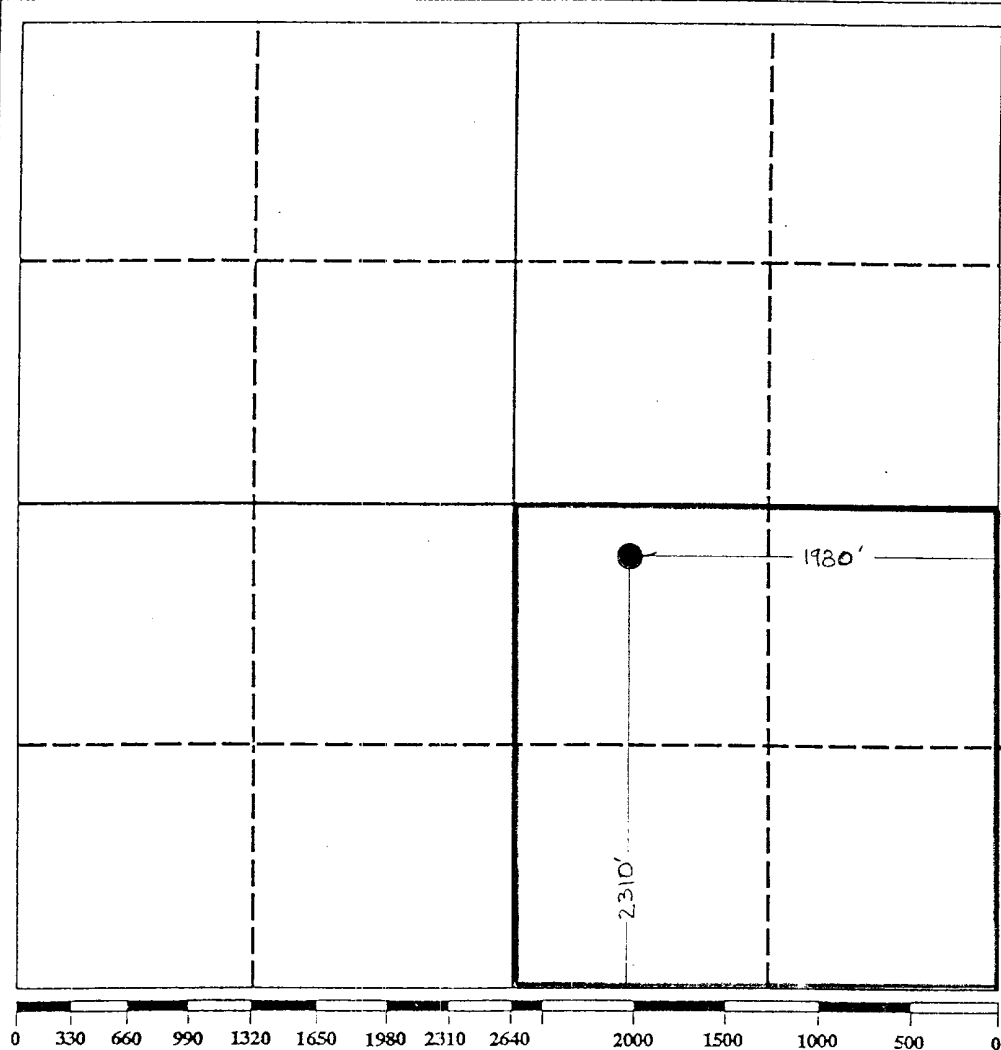
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator SHELL WESTERN E&P INC.			Lease NORTHEAST DRINKARD UNIT		Well No. 920
Unit Letter J	Section 23	Township 21S	Range 37E	County NMPM LEA	
Actual Footage Location of Well: 2310 feet from the SOUTH line and 1980 feet from the EAST line					
Ground level Elev. 3368' GR	Producing Formation TUBB	Pool N. EUNICE B-T-D OIL & GAS TUBB (PRO GAS)		Dedicated Acreage: 160 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?
 Yes No If answer is "yes" type of consolidation UNITIZATION
 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 interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature: *J. H. Smitherman*
 Printed Name: **J. H. SMITHERMAN**
 Position: **REGULATORY SUPV.**
 Company: **SHELL WESTERN E&P INC.**
 Date: **6-5-90**

SURVEYOR CERTIFICATION

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: _____
 Signature & Seal of Professional Surveyor: _____
 Certificate No.: _____

DISTRICT II
 P.O. Drawer DD, Artesia, NM 88210

OIL CONSERVATION DIVISION
 P.O. Box 2088
 Santa Fe, New Mexico 87504-2088

DISTRICT III
 1000 Rio Brazos Rd., Aztec, NM 87410

**REQUEST FOR ALLOWABLE AND AUTHORIZATION
 TO TRANSPORT OIL AND NATURAL GAS**

I.

Operator SHELL WESTERN E&P INC.	Well API No. 30-025-21351
Address P. O. BOX 576, HOUSTON, TX 77001 (WCK 4435)	
Reason(s) for Filing (Check proper box) New Well <input type="checkbox"/> Change in Transporter of: <input checked="" type="checkbox"/> Other (Please explain) Recompletion <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> CHANGE LEASE NAME & WELL NO. FROM S. J. SARKEYS #6 TO UNIT DESIGNATION BELOW. Change in Operator <input type="checkbox"/> Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>	
If change of operator give name and address of previous operator _____	

II. DESCRIPTION OF WELL AND LEASE

Lease Name NORTHEAST DRINKARD UNIT	Well No. 920	Pool Name, including Formation N. EUNICE B-T-D OIL & GAS TUBB (PRORATED GAS)	Kind of Lease State, Federal or <u>(f)ce</u>	Lease No.
Location Unit Letter J : 2310 Feet From The SOUTH Line and 1980 Feet From The EAST Line Section 23 Township 21S Range 37E , NMPM, L-EA County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Shell Pipe Line Corp.	Address (Give address to which approved copy of this form is to be sent) P. O. Box 1910, Midland TX 79702-1910			
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> Texaco Producing, Inc.	Address (Give address to which approved copy of this form is to be sent) P. O. Box 1137, Eunice, NM 88231			
If well produces oil or liquids, give location of tanks.	Unit K	Sec. 23	Twp. 21S	Rge. 37E
				Is gas actually connected? NO When?

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
		X				X		X
Date Spudded 6-10-65	Date Compl. Ready to Prod. 4-02-90	Total Depth 7370'		P.B.T.D. 6450'				
Elevations (DF, RKB, RT, GR, etc.) 3368' GR	Name of Producing Formation TUBB	Top Oil/Gas Pay 6130'		Tubing Depth 6388'				
Perforations 6130' - 6390'				Depth Casing Shoe 7370'				
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
17-1/4	13-3/8" (4.8#)		382'		400			
11"	8-5/8" (2.0, 2.4#)		3209'		1175			
7-7/8"	5-1/2" (4, 15.5#)		3052' - 7370'		850			

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D 2.3	Length of Test 24 HRS	Bbls. Condensate/MMCF 43.5	Gravity of Condensate 38.8
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in) NA	Casing Pressure (Shut-in) NA	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

J. H. Smitherman
 Signature
J. H. SMITHERMAN REGULATORY SUPV.
 Printed Name Title
6-5-90 (713) 870-3797
 Date Telephone No.

OIL CONSERVATION DIVISION

Date Approved _____

By _____

Title _____

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

WRS COMPLETION REPORT

COMPLETIONS SEC 23 TWP 21S RGE 37E
PI# 30-T-0015 06/22/90 30-025-21351-0003 PAGE 1

NMEX LEA * 2310FSL 1980FEL SEC NW SE
STATE COUNTY FOOTAGE SPOT
SHELL WESTERN EXPL&PROD D X DO
OPERATOR WELL CLASS: INIT FIN
920 NORTHEAST DRINKARD UNIT
WELL NO. LEASE NAME
3368GR EUNICE N
OPER ELEV FIELD POOL AREA
API 30-025-21351-0003
LEASE NO. PERMIT OR WELL I.D. NO.

02/22/1990 04/02/1990 WO-UNIT VERT OIL-WO
SPUD DATE COMP. DATE TYPE TOOL HOLE TYPE STATUS
6450 TUBB NOT RPTD
PROJ. DEPTH PROJ. FORM CONTRACTOR
DTD 7370 PB 6450 OTD 7370 FM/TD TUBB
DRILLERS T.D. LOG T.D. PLUG BACK TD OLD T.D. FORM I.D.

LOCATION DESCRIPTION

2 MI NE EUNICE, NM

TUBING DATA

TBG 2 3/8 AT 6388

INITIAL POTENTIAL

IPP 1BOPD 23 MCFD 24HRS
TUBB PERF W/ 2/FT 6130- 6390
PERF 6130- 6390
ACID 6130- 6390 3780GALS
210 BBLs 20% HCL ADDTVC02
GTY 38.8 GOR 23000

PRODUCTION TEST DATA

DRINKARD PERF 6432- 6611
ABO PERF 6891- 7286
PERF 6432- 6611 6891- 7286
SQZD 6432- 7286
CMT RET @ 6198
SQZD & DOC TO 6450

DRILLING PROGRESS DETAILS

SHELL WESTERN EXPL&PROD
BOX 576

CONTINUED IC# 300257021190

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Petroleum Information

PI-WRS-GET
Form No 1B7

DB a company of
The Dun & Bradstreet Corporation

COMPLETIONS SEC 23 TWP 21S RGE 37E
PI# 30-T-0015 06/22/90 30-025-21351-0003 PAGE 2

SHELL WESTERN EXPL&PROD D X DO
920 NORTHEAST DRINKARD UNIT

DRILLING PROGRESS DETAILS

HOUSTON, TX 77001
713-870-2121

OWWO: OLD INFO: FORMERLY ARCO O&G #6 SARKEYS
S J. ELEV 3368 GR. SPUD 4/8/84. 13 3/8 @
382 W/400 SX, 8 5/8 @ 3209 W/1175 SX, 5 1/2 LNR
@ 3052-7370 W/1050 SX. OTD 7370. PB 7328.
COMP 5/19/84. IPP 15 BO, 15 BWPD. PROD ZONES:
DRINKARD 6432-6611, ABO 6891-7286 (COMMINGLED).

06/15
06/21

LOC/1990/
7370 TD, PB 6450
COMP 4/2/90, IPP 1 BO, 23 MCFGPD, GOR
23000, GTY 38.8
PROD ZONE - TUBB 6130-6390
FIRST REPORT & COMPLETION