DATE IN 5/9/01	SUSPENSE 5/29/01	ENGINEER DC	LOGGED IN KN	TYPE DHC	APP NO. 1130379 15

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505

2914

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

RECEIVED
MAY - 9 2001

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

[A] ☒ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] **INFORMATION / DATA SUBMITTED IS COMPLETE** - Certification

I hereby certify that I, or personnel under my supervision, have reviewed the applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common.

I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Peggy Cole	Peggy Cole	Regulatory Supervisor	5-7-01
Print or Type Name	Signature	Title	Date

pbradfield@br-inc.com
e-mail Address

District I
1625 N. French Drive, Hobbs, NM 88240
District II
811 South First Street, Artesia, NM 88210
District III
Well
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, New Mexico 87505

APPLICATION FOR DOWNHOLE COMMINGLING

Form C-107A
Revised May 15, 2000

APPLICATION TYPE
_X___Single

____Establish Pre-Approved Pools
EXISTING WELLBORE
____ Yes _X___No

Burlington Resources Oil and Gas — Operator
3401 East 30th Street, Farmington, New Mexico — Address

Stull — Lease
2 — Well No.
L-10-32N-10W — Unit Letter-Section-Township-Range
San Juan — County

OGRID No._14538_ Property Code_7554_____ API No._30-045-30561_____ Lease Type: ____Federal ___ State _X___Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	**Wildcat Mancos**		**Basin Dakota**
Pool Code			**71599**
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	**Will be supplied upon completion**		**Will be supplied upon completion**
Method of Production (Flowing or Artificial Lift)	**New Zone**		**New Zone**
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	**Original – 3,226 psi** (see attachment)		**Original – 3,373 psi** (see attachment)
Oil Gravity or Gas BTU (Degree API or Gas BTU)	**BTU 1262 From Hancock B6 - Offsest**		**BTU 972 From EPNG Com C5-Offset**
Producing, Shut-In or New Zone	**New Zone**		**New Zone**
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: **N/A** Rates:	Date: Rates:	Date: **N/A** Rates:
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas Supplied Upon Completion	Oil Gas Supplied Upon Completion	Oil Gas Supplied Upon Completion

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes_____ No _X__
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes ___X___ No_____

Are all produced fluids from all commingled zones compatible with each other? Yes ___X___ No_____

Will commingling decrease the value of production? Yes_____ No __X__

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes___X___ No_____

NMOCD Reference Case No. applicable to this well: _____

Attachments:
- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools
List of all operators within the proposed Pre-Approved Pools
Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
Bottomhole pressure data.

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

SIGNATURE C.A. McCracken TITLE Engr. DATE 5/7/01
nco
TYPE OR PRINT NAME Craig A. McCracken TELEPHONE NO. (505) 327-9700

DISTRICT I
625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
811 South First, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-045-30561	71599/	Basin Dakota/WC:32N10W10L Mancos

[4] Property Code	[5] Property Name	[6] Well Number
	STULL	2

[7] OGRID No.	[8] Operator Name	[9] Elevation
14538	BURLINGTON RESOURCES OIL & GAS, INC.	6136'

[10] Surface Location

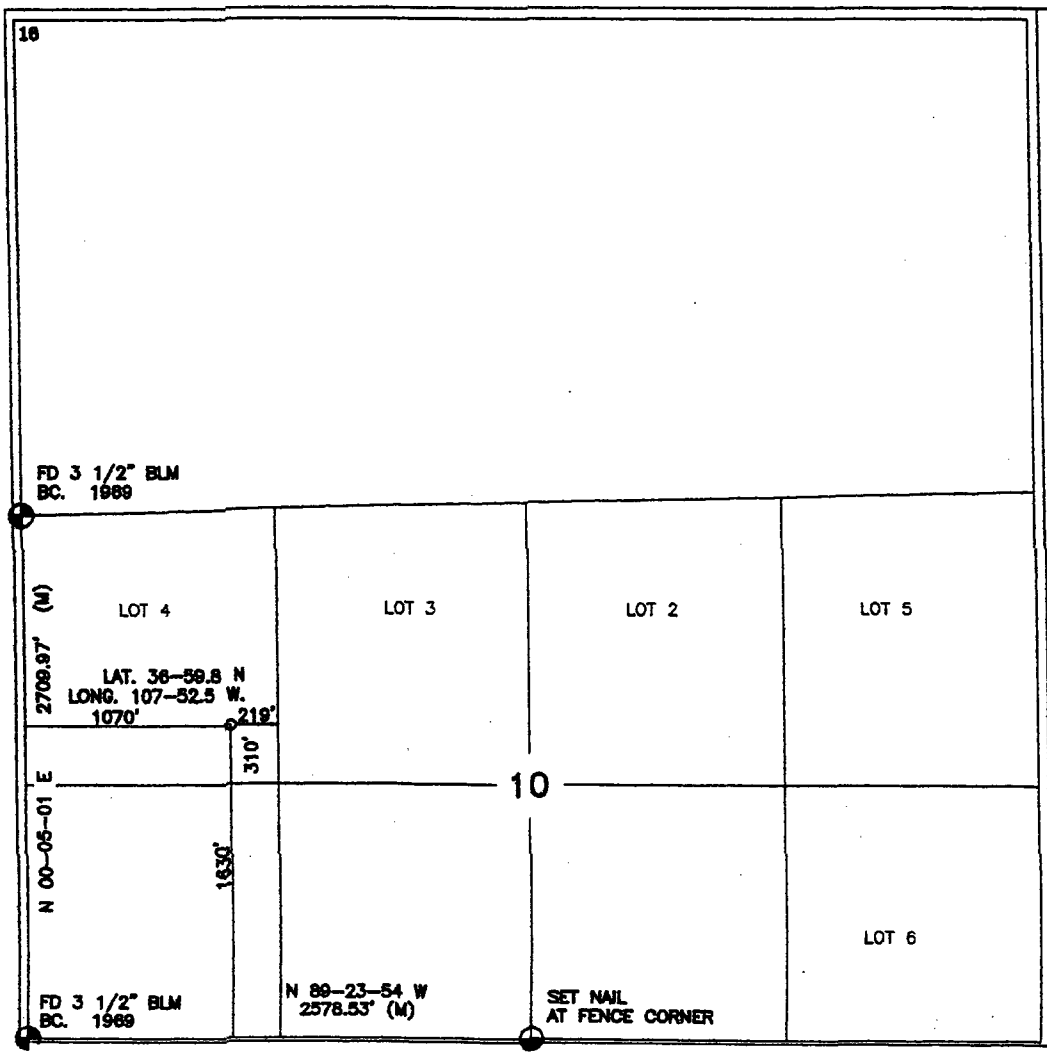
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	10	32-N	10-W		1630	SOUTH	1070	WEST	SAN JUAN

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
DK: S/339.83 Mancos: SW/ 172.2			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



[17] OPERATOR CERTIFICATION

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

Peggy Cole
Signature

Peggy Cole
Printed Name

Regulatory Supervisor
Title

4-30-01
Date

[18] 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 belief.

1-17-01
Date of Survey

Signature and Seal of Professional Surveyor

ROY A. RUSH
NEW MEXICO
8894
REGISTERED PROFESSIONAL LAND SURVEYOR

8894
Certificate Number

Stull #2 Gallup – Dakota Commingle
Supporting Documentation for C-107A

During the drilling of the Stull #2, a Gallup interval was encountered which required 9.0 Lb/Gal drilling fluid to control. Since the zone could not be controlled with 8.5 Lb/Gal drilling fluid the pressure of this zone must be between these values. Since the top of the productive Gallup zone is at 7,090', the pressure range for this zone can be calculated as follows;

7,090 X .052 X 8.5 = 3,134 psi

7,090 X .052 X 9.0 = 3,318 psi

Since this is a fairly narrow range, it is reasonable to assume the average of 3,226 psi as the pressure for the zone and this is what has been reported on the attached sheet. Copies of the drilling report showing the drilling fluid densities used to control flow from the Gallup are also attached.

Pressure for the Dakota zone is from the EPNG Com C #5, in the SW/4 of section 16, T-32-N, R-10-W, about one-and-a-half miles to the southwest of the Stull. A bottomhole pressure measurement was conducted for this well and is attached. This measurement serves as the basis for the Dakota pressure on the form.

Operations Summary Report

Legal Well Name:	STULL #2				
Common Well Name:	STULL #2			Spud Date:	4/9/2001
Event Name:	ORIG DRLG	Start:	4/9/2001	End:	4/25/2001
Contractor Name:	AZTEC WELL SERVICE	Rig Release:	4/26/2001	Group:	
Rig Name:	AZTEC	Rig Number:	301		

Date	From - To	Hours	Sub Co	Phase	Code	Description of Operations
4/18/2001	11:00 - 13:15	2.25	05	a	4	LOAD WELL W/ 120 BBLS MUD, CIRCULATE & CONDITION MUD, M/W = 8..5, VIS = 50, W/L = 10, LCM = 25%, WELL STILL KICKING, RETURNING MUD WEIGHT @ 8.3+. BELIEVE GAS IS COMING F/ FRACTURE @ 7090' IN LOWER GALLUP FORMATION, WHILE DRILLING W/ AIR BACKGROUND GAS INCREASED F/ 200 UNITS TO 400 UNITS.
	13:15 - 14:30	1.25	06	a	4	TIH, TAG @ 7070'.
	14:30 - 17:45	3.25	03	a	4	WASH & REAM F/ 7070' TO 7343'. HARD BRIDGE F/ 7090' TO 7100'.
	17:45 - 21:00	3.25	05	a	4	CIRCULATE & CONDITION MUD, M/W = 8.5#, VIS = 60, W/L = 8, PH = 8, LCM = 25%, CHECK F/ FLOW, WELL FLOWING 1" STREAM.
	21:00 - 22:45	1.75	05	b	4	CIRCULATE & RAISE MUD WEIGHT TO 9#, FLOW CHECK, NO FLOW.
	22:45 - 01:00	2.25	06	a	4	TOH 67 STDS, CHECKED F/ FLOW BEFORE STARTING TRIP & THREE TIMES WHILE TRIPPING, WELL STARTED FLOWING 1" STREAM ON FOURTH FLOW CHECK. NO OVERPULL ON TRIP TO INDICATE SWABBING.
	01:00 - 02:15	1.25	06	a	4	TIH TO 7343'.
	02:15 - 03:15	1.00	05	a	4	CIRCULATE OUT GAS ON CHOKE MANIFOLD, PUMP @ 3 BPM = 400 PSI, ANNULUS F/ 500 PSI TO 200 PSI.
	03:15 - 06:00	2.75	05	a	4	CIRCULATE & CONDITION MUD, MUD CHECK IN: VIS = 50, M/W = 9.1#, W/L = 6, LCM = 33%, MUD CHECK OUT: VIS = 43, M/W = 9.1#, W/L = 8, LCM = 25%.
4/19/2001	06:00 - 09:30	3.50	05	b	4	CIRCULATE & CONDITION MUD, RAISED LCM TO 30% & INCREASED MUD WEIGHT TO 9.2+, M/W = 9.2+, VIS = 45, W/L = 8, LCM = 30%, FLOW CHECK F/ 15 MIN, NO FLOW, PUMP SLUG.
	09:30 - 10:45	1.25	06	b	4	TOH 10 STDS, FLOW CHECK, WELL FLOWING 1/4" STREAM, TOH 5 STDS, FLOW CHECK, WELL FLOWING 1/2" STREAM.
	10:45 - 11:15	0.50	06	b	4	TIH, TAG BRIDGE @ 7120'.
	11:15 - 17:30	6.25	05	b	4	CIRCULATE, WASH & REAM F/ 7120' TO 7343', RAISED MUD WEIGHT TO 9.8+, VIS - 45, W/L - 10, LCM - 30%. FLOW CHECK F/ 15 MIN. NO FLOW. DRILLED 2' WHILE CONDITIONING MUD TO 7345'
	17:30 - 21:00	3.50	06	a	4	TOH, FLOW CHECK EVERY 10 STDS, PULLED 50 STDS & FLOW CHECKED, WELL FLOWING 1/4" STREAM.
	21:00 - 22:15	1.25	06	a	4	TIH.
	22:15 - 05:00	6.75	05	b	4	CIRCULATE OUT GAS CUT MUD, CIRCULATE & CONDITION MUD, RAISE MUD/WT TO 10.1#, RAISE LCM TO 35%. DRILLED 5' WHILE CIRCULATING TO 7350'.
	05:00 - 06:00	1.00	06	b	4	SHORT TRIP 10 STDS, WELL SWABBING ON FIRST 3 STDS & SINGLE PULLED, APPROX 210' = 7130', PULLING 100K & THEN DROPPED OFF TO 92K, TIH BACK TO BOTTOM.
4/20/2001	06:00 - 08:00	2.00	05	a	4	CIRCULATE OUT GAS CUT MUD, M/WT = 10#, VIS = 53, LCM = 30%, FLOW CHECK, NO FLOW.
	08:00 - 09:00	1.00	06	a	4	TOH, CIRCULATED OUT 10 JTS W/ KELLY TO PREVENT SWABBING WELL.
	09:00 - 10:00	1.00	05	a	4	CIRCULATE BOTTOMS UP, NO GAS, FLOW CHECK, NO FLOW.
	10:00 - 16:30	6.50	06	a	4	TOH, FLOW CHECK WELL EVERY 10 STDS.
	16:30 - 00:30	8.00	06	a	4	REJET BIT W/ 3 X 15'S, PICK UP 10 ADDITIONAL 4 3/4" DRILL COLLARS, TIH, BREAK CIRCULATION EVERY 30 STDS, TAG @ 7196'.
	00:30 - 02:15	1.75	03	a	4	WASH & REAM F/ 7196' TO 7343', TRIP GAS = 300 UNITS.
	02:15 - 06:00	3.75	02	b	4	MUD DRILL 6 1/4" HOLE F/ 7343' TO 7363', WOB = 26K, RPM = 60, PUMP @ 246 GPM = 1800 PSI. TRIP GAS = 300 UNITS, BACKGROUND GAS = 75/105 UNITS.
4/21/2001	06:00 - 08:00	2.00	02	b	4	DRILL 6 1/4" HOLE F/ 7363' TO 7378', ROP = 7.5 FPH, WOB = 26K, RPM = 60, PUMP @ 251 GPM = 1800 PSI, M/WT = 9.9#, VIS = 47, W/L = 6.5,

COBRA SLICKLINE CORPORATION

Reservoir Engineering Data

Farmington, New Mexico

INDIVIDUAL WELL DATA SHEET

File No.: 2105P

Company: Burlington Resources, Inc.

Lease: EPNG Com C

Well No.: 5

Field:

County/State: San Juan, NM

Formation: DK

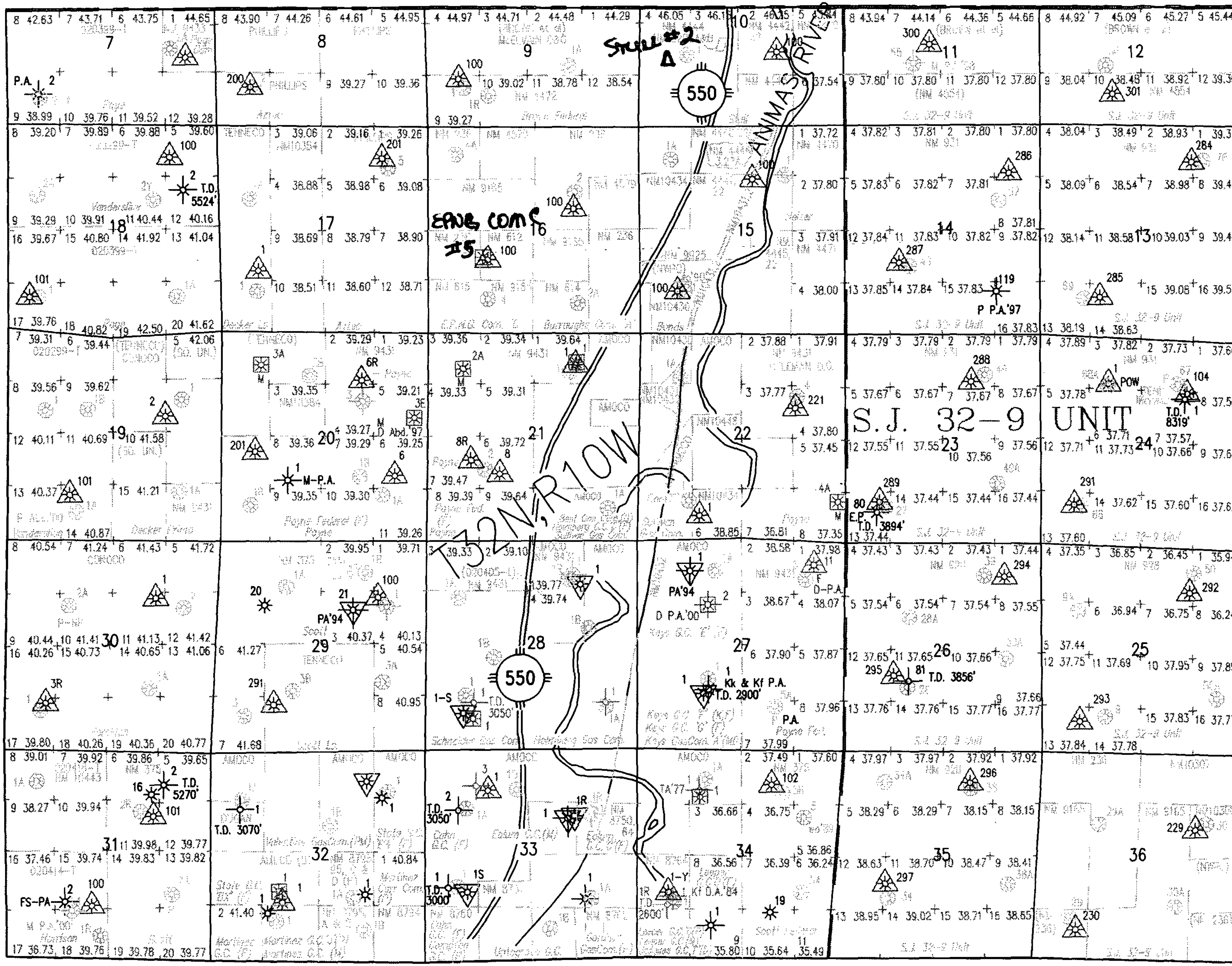
Test Date: October 28 1999

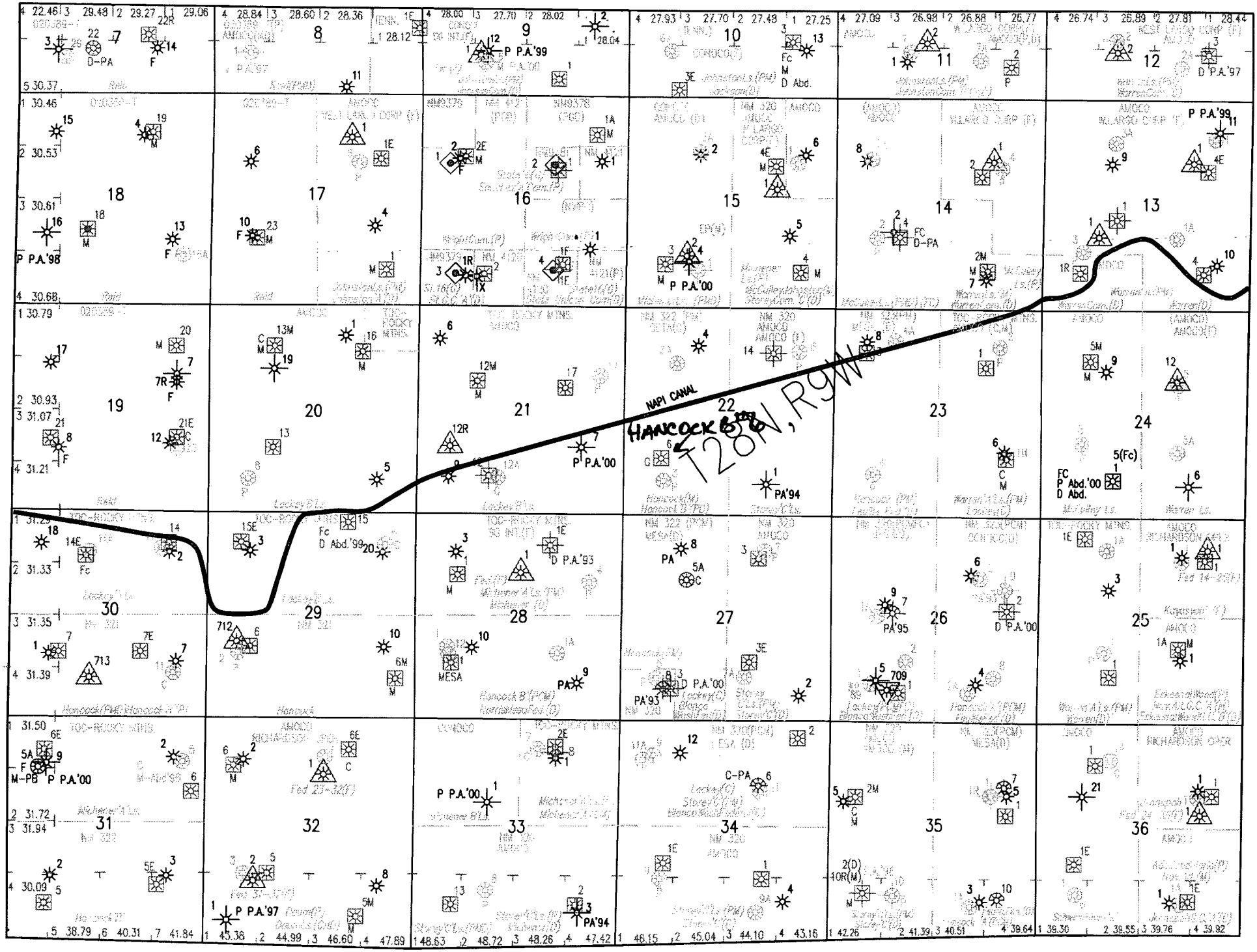
Elevation (ft):		Casing Pressure (psi): 0	
Atmosphere Pressure (psi): 12.69		Tubing Pressure (psi): 2817	
Total Depth (ft):		Oil Level (ft):	
Perforation (ft): 8204-8227		Water Level (ft):	
Tbg Size (in): 2 7/8	to (ft): 8194	Temperature (°F): 237.21	at (ft): 8194
Csg Size (in):	to (ft):	Atmosphere Temperature (°F): 71	
Packer (ft): 8195		Element No.: 8450H	
F Nipple (ft): 8194		Element Range (psi): 0-5000	
Maximum Safe Test Depth (ft): 8124		Operator: Jeff Williams	Unit No.: WL1

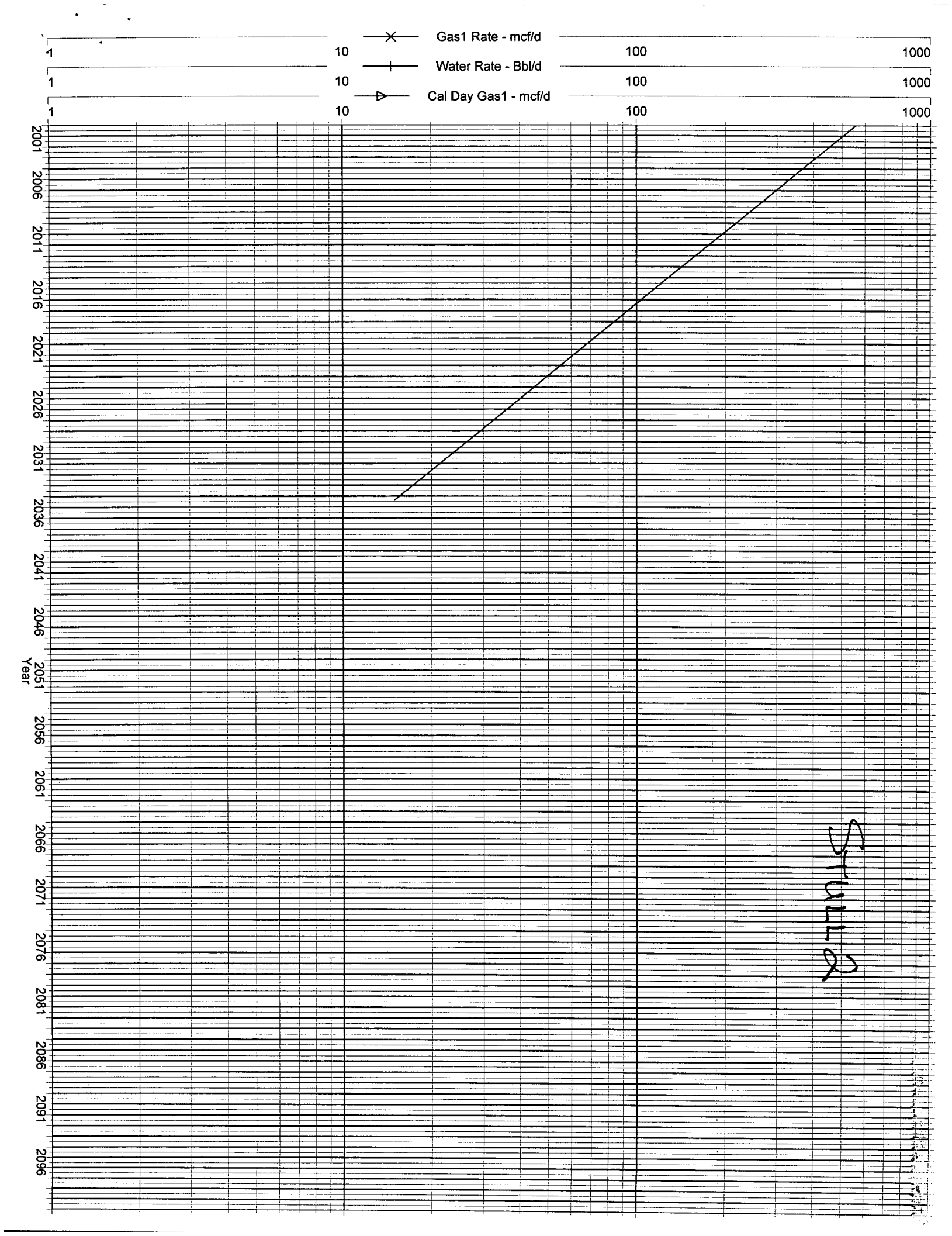
Well Status: shut in 59 hrs

	Depth	Temperature	Pressure	Differential	Differential	Gradient
Time	Feet	°F	Psig	Psi	Feet	Psi per Ft
9:11	0	53.45	2829.980			
9:05	2000	89.22	2984.040	154.060	2000	0.077030
8:59	4000	143.19	3124.020	139.980	2000	0.069990
8:53	6000	184.86	3248.010	123.990	2000	0.061995
8:46	8000	235.6	3362.860	114.850	2000	0.057425
8:45	8194	237.21	3373.060	10.200	194	0.052577

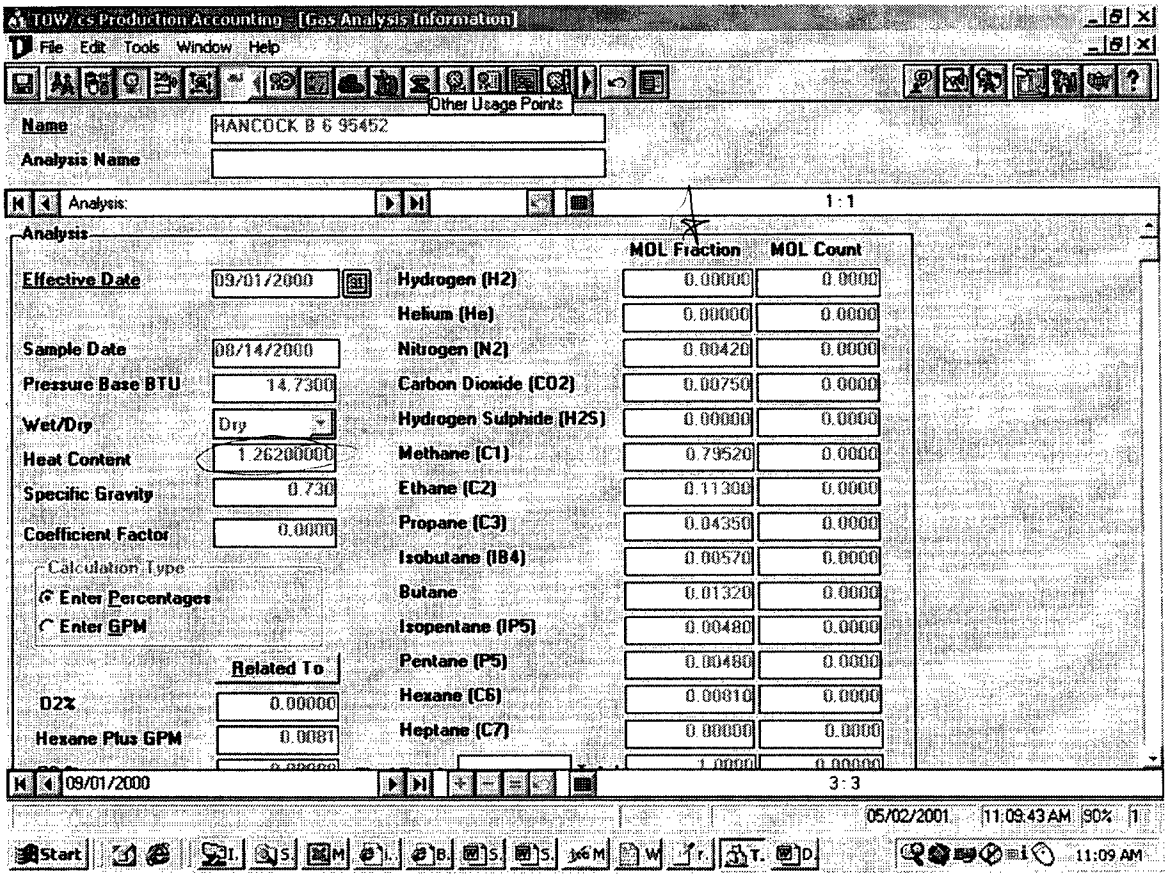
Pressure:	Psig @ subsurf.	Datum Depth (ft):	Feet/Change:
Last Pressure Date:		Last Pressure @ (ft):	
Remarks:			


T32N, R10W
S.J. 32-9 UNIT
ANIMAS RIVER
550
STULL #2
EPNG COM C #5

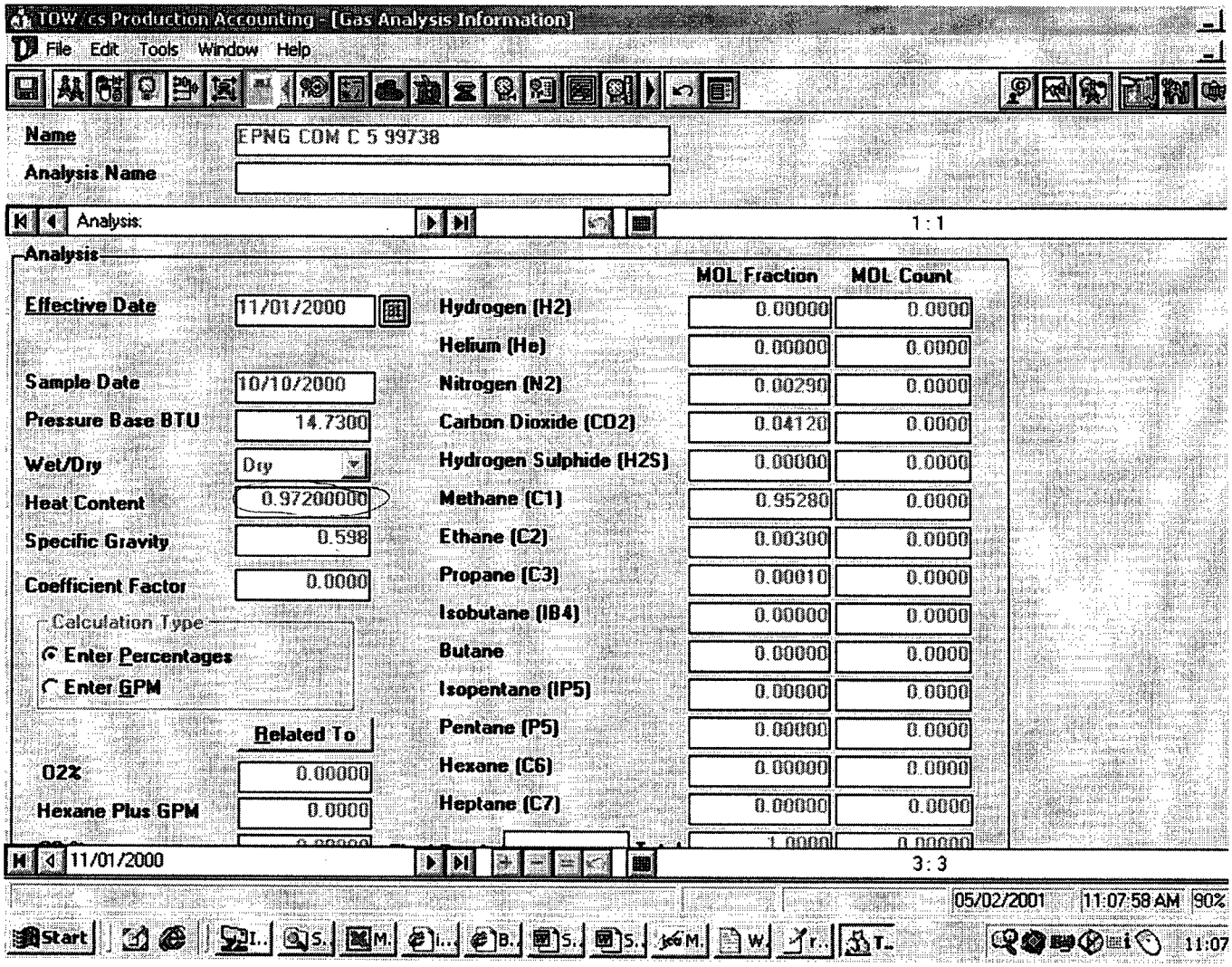

NAPI CANAL
HANCOCK
T20N, R9W


Gas1 Rate - mcf/d
Water Rate - Bbl/d
Cal Day Gas1 - mcf/d
1
10
100
1000
Year
2001
2006
2011
2016
2021
2026
2031
2036
2041
2046
2051
2056
2061
2066
2071
2076
2081
2086
2091
2096

WILDCAT OFFSET



DAKOTA OFFSET



INTEREST OWNERS

STULL 2 Well

ANDREW KELLY JR

ANN BOWIE MAXWELL TRUSTEE OF ANN BOWIE MAXWELL REV LIV TRUST

BUREAU OF LAND MANAGEMENT

CARY M TAYLOR AND BILLIE M TAYLOR

CASTLE INC

CHARLES H BRADFORD AND

CHARLES KELLY

EDITH J & BURTON O CARNEY

H H PHILLIPS JR

J J & IRA DELL MASEK IRREV FAM TRST

JANE PHILLIPS

MARVIN DAVID ELLSBURY

NANCY O MABE SUCC TRUSTEE LUCILE O QUIGLEY TRUST

NEPCO FED CREDIT UNION

OPAL L ELLSBURY TRUSTEE U/T/A DTD MAY 24, 1993

PAUL R MAYO JR

ROBERT E C DOUGHTIE

ROBERT LYNN ELLSBURY &

SUSANNA P KELLY

SUSANNA P KELLY JR

UNION PACIFIC RAILROAD CO

WANDA E NICHOL

WINTERGREEN ENERGY CORP