

**EXHIBIT 6**

# Barker Dome

Colorado  
New Mexico

Durango

Exploration Well

Aztec

Farmington

Mesa Verde  
Production

San Juan Basin

Pennsylvanian Wells

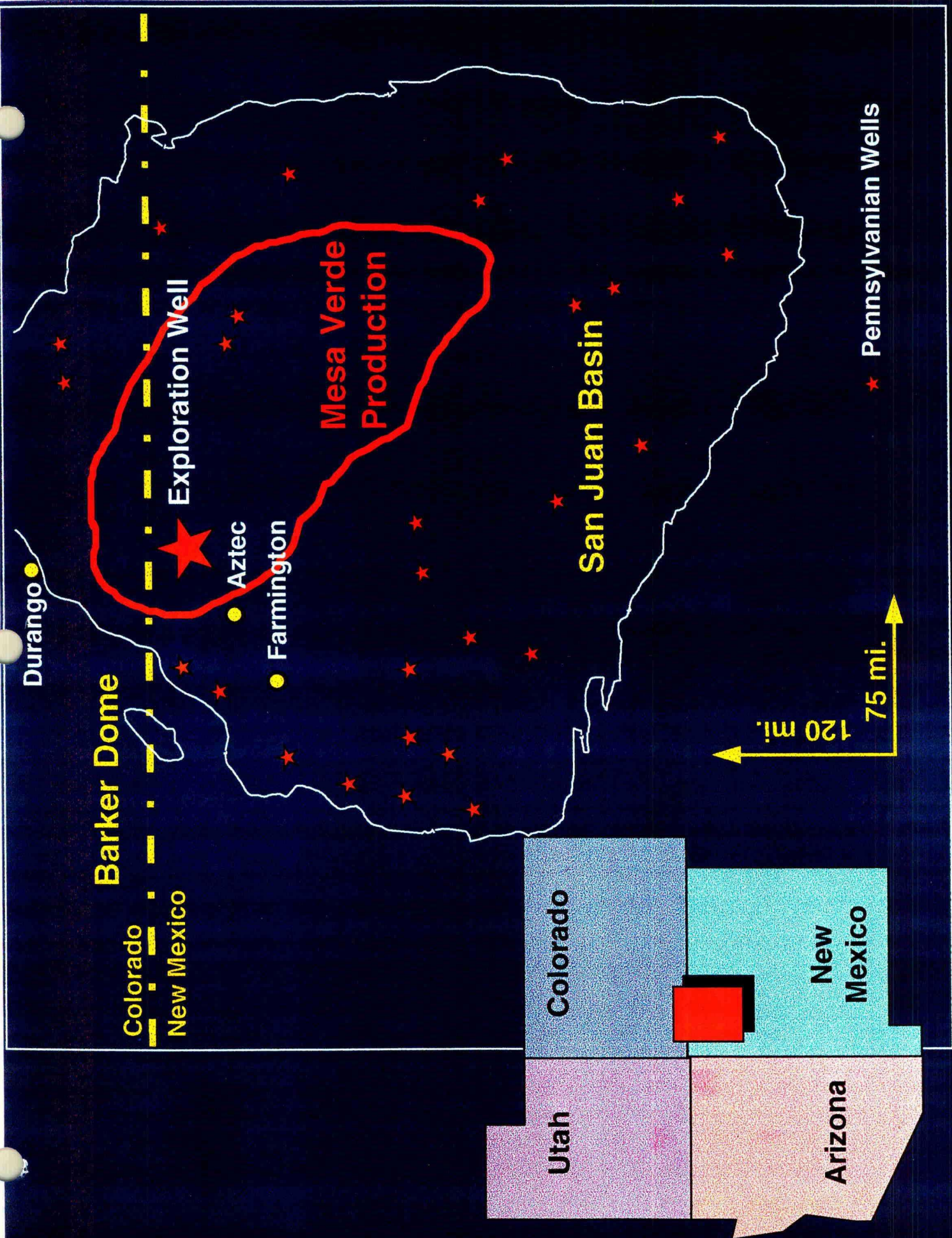
120 mi.  
75 mi.

Colorado

New  
Mexico

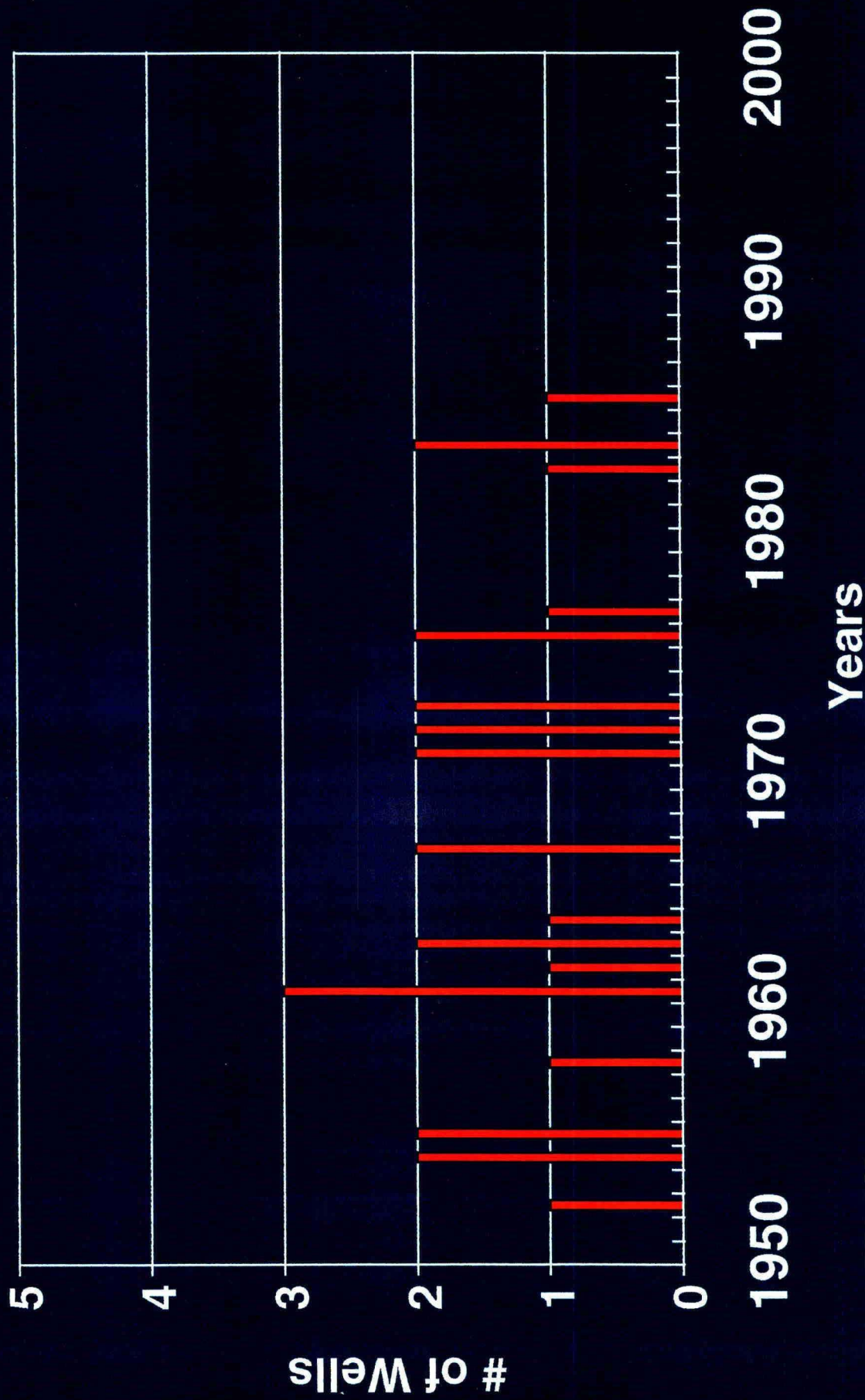
Utah

Arizona





# Pennsylvanian Exploration Well Histogram San Juan Basin



28 Wells

# Well Profile

## Challenges

Wet - Ojo Alamo &  
Fruitland

Lost Circulation

Depleted - Mesa Verde  
2.0 ppg

Wet - Morrison

Lost Circulation

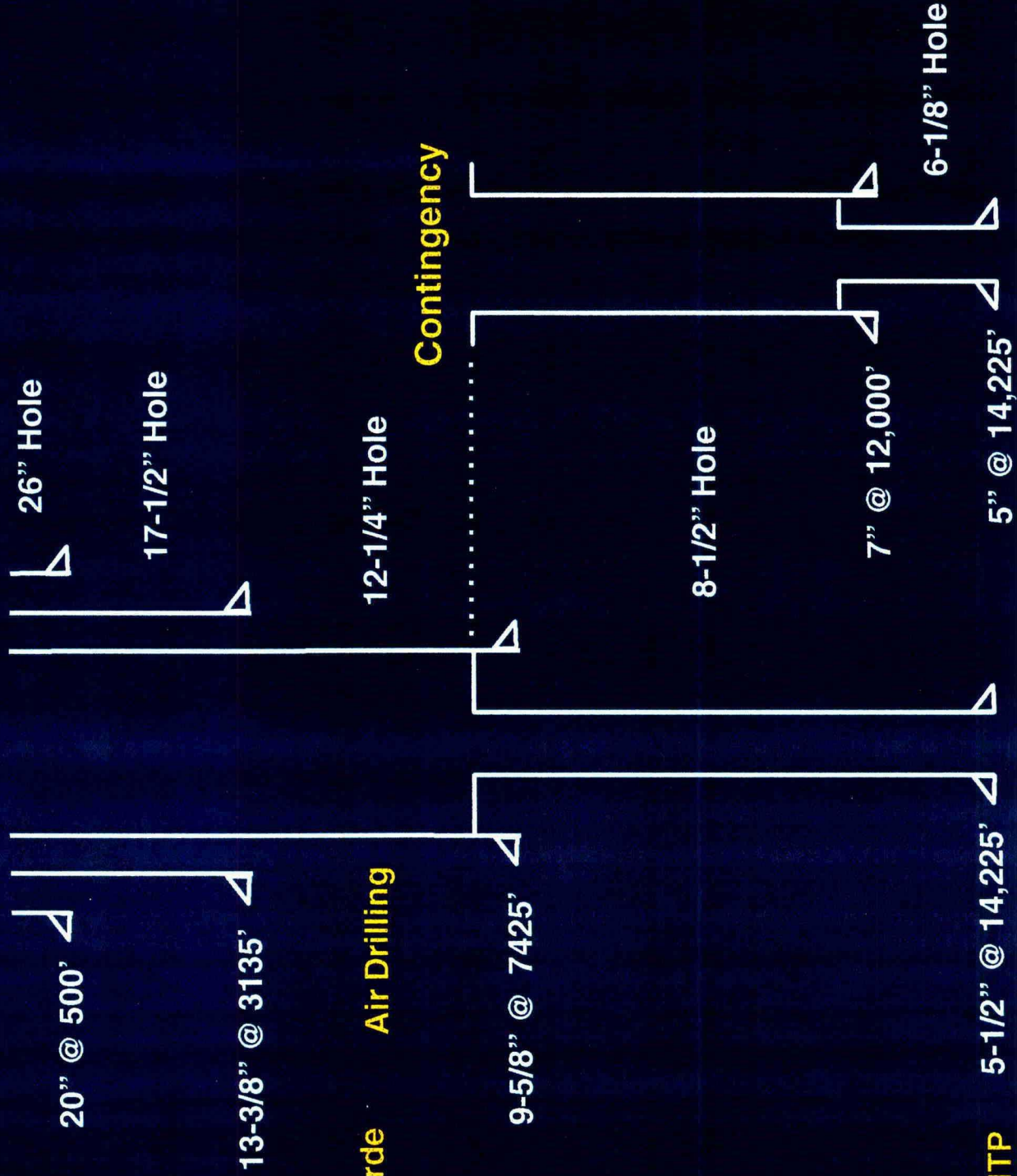
Pennsylvanian

H<sub>2</sub>S - 1%, CO<sub>2</sub> - 1%

BHT @ 350 Deg. F

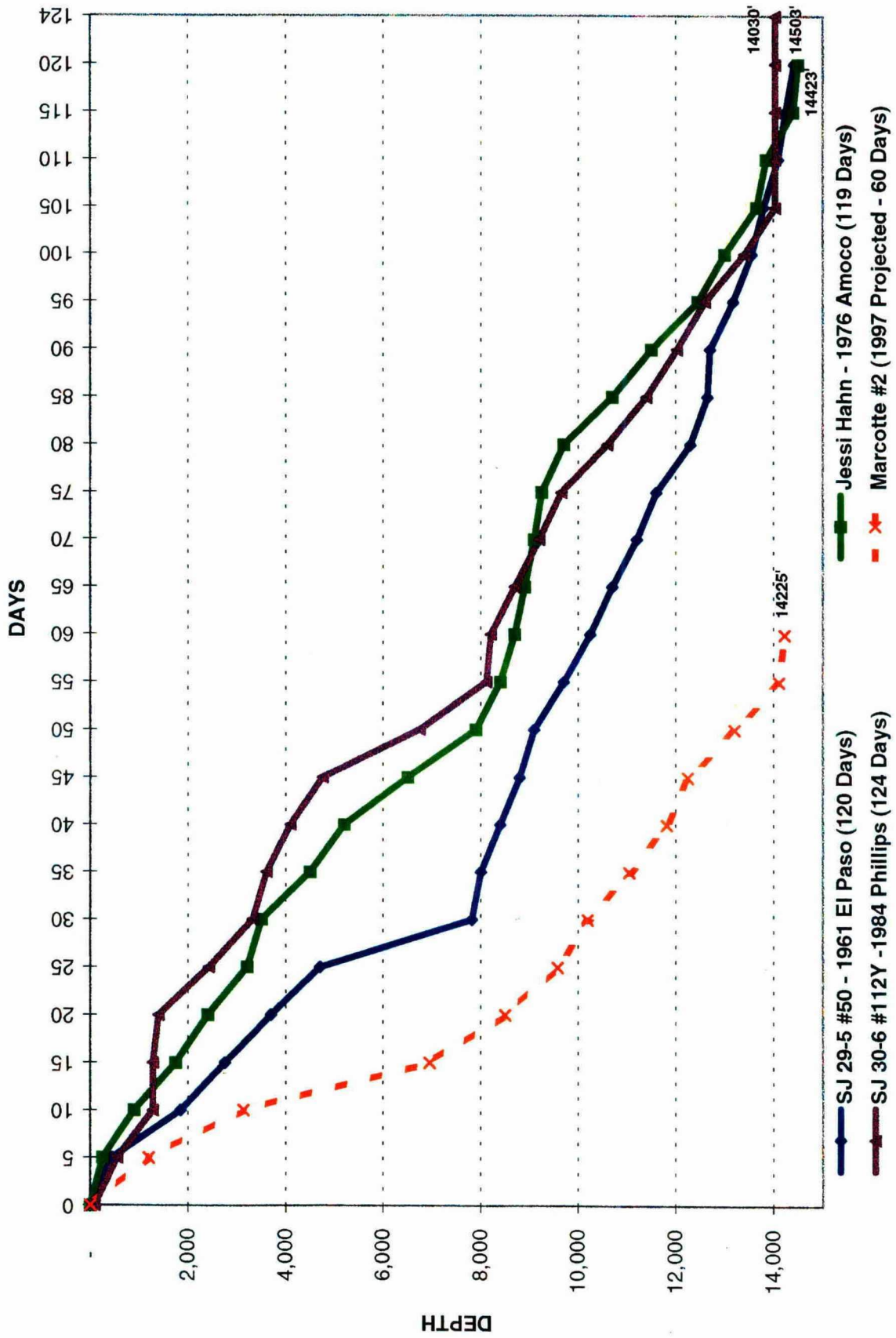
BHP @ 6700 psi

Stim: 10,000 psi BHTP





# MARCOTTE #2 - DAYS VS DEPTH COMPARISON



# Logistical Challenges

- Regulatory Requirements
- Remote Location
- Deep Well Experience
- Drilling Equipment
- Materials
- Close Proximity to Residences

BURLINGTON RESOURCES  
Farmington Region  
Post Office Box 4289  
Farmington, New Mexico, 87499  
(505) 326-9700

AUTHORITY FOR EXPENDITURE

AFE No.: 3544 Property Number: 012580204 Date: 2/20/97  
Lease/Well Name: Marcotte #2 DP Number: 61923A  
Field Prospect: San Juan Basin Penn Operator: Burlington Resources Region: Farmington  
Location: Sec. 8, T31N, R10W County: San Juan State: NM  
AFE Type: 1 - New Drill Original: X Supplement:        Addendum:        API Well Type:         
Objective Formation: Pennsylvanian Authorized Total Depth (Feet): 14,000'  
Project Description: Pennsylvanian test in San Juan Basin - Exploratory well - Arch Rock Prospect

Estimated Start Date: 2nd Qtr 1997

Prepared By: C. E. Lane

Estimated Completion Date: 2nd Qtr 1997

GROSS WELL DATA

	Drilling		Workover/ Completion	Construction Facility	Total
	Dry Hole	Suspended			
Days:	<u>58</u>	<u>2</u>	<u>12</u>	<u>0</u>	<u>72</u>
This AFE:	<u>\$1,713,800</u>	<u>\$77,100</u>	<u>\$407,073</u>	<u>\$119,000</u>	<u>\$2,316,973</u>
Prior AFE's:	<u>0</u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>\$0</u>
TOTAL COSTS:	<u>\$1,713,800</u>	<u>\$77,100</u>	<u>\$407,073</u>	<u>\$119,000</u>	<u>\$2,316,973</u>

JOINT INTEREST OWNERS

Company:	Working Interest Percent	Dry Hole \$	Completed \$
Burlington Resources:	<u>9.310450%</u>	<u>\$ 109,286</u>	<u>\$ 215,721</u>
Trust:	<u>0.00%</u>	<u>0</u>	<u>\$0</u>
Others :	<u>90.689550%</u>	<u>\$1,064,514</u>	<u>\$2,101,252</u>
AFE TOTAL:	<u>100.00%</u>	<u>\$1,713,800</u>	<u>\$2,316,973</u>

BURLINGTON RESOURCES APPROVAL

Approved: [Signature]  
Title: Asst. Dir. II Date: 4/10/97

Approved: [Signature]  
Title: Land Manager Date: 4-14-97

Approved: [Signature]  
Title: Manager Date: 4/10/97

Approved: [Signature]  
Title: Vice President Date: 4/10/97

PARTNER APPROVAL


Company Name:        Date:       

Authorized By:        Title:



## Cost Estimate

Well Name: Marcotte #2  
 Location: 1540' FSL, 935' FEL Section 8, T-31-N, R-10-W  
 AFE Type: (02) Exploration  
 Formation: Pennsylvanian  
 Proposed TD: 14,225' Intermediate TD: 3100', 7425' Area Team: Penn  
 Comments: OH Logs 7425' - 12,000': AIT-SP-GR, Micro-SP-GR, Dens-Neut-Cal-GR-SP, Dipole Sonic  
 OH Logs 12,000' - 14,225': AIT-SP-GR, Micro-SP-GR, Dens-Neut-Cal-GR-SP, Dipole Sonic, Sidewall Cores

Prepared By: Kurt A. Shipley  
 Date: 2/26/97  
 Approved By:   
 Date:   
 Cost/ft: \$125.90/ft

## Intangible Costs

Account Number	Estimated Days:	Dry Hole Cost 58	Suspended Cost 2	Total Estimated Cost 60
248				
03	Location Cost 4.9 Acre location w/ 30" Conductor Pipe.	35,000	0	35,000
05	Move-in, Move-out Move in and move out.	200,000	0	200,000
07	Rig Cost @ \$7000/day.	430,000	15,000	445,000
08	Safety Equipment H2S Monitor 10,500' to TD @ \$600/day.	19,000	1,300	20,300
10	Drilling Fluid LSND, Solids Control, Air Drilling.	137,500	0	137,500
16	Fresh/Salt Water, Fluids	50,000	0	50,000
17	Bits	141,900	0	141,900
18	Cementing HES Cost Estimate.	98,000	17,000	115,000
22	Coring and Analysis Sidewall Core Analysis.	20,000	0	20,000
23	Fuel Air Package Fuel.	22,500	3,000	25,500
25	Rentals BOP: 10 days @ \$500/day, 3-1/2" D.P. + Misc.	18,500	0	18,500
26	Fishing	0	0	0
28	Other Rentals	5,000	0	5,000
29	Transportation	20,000	0	20,000
32	Directional Services	0	0	0
33	Inspection	7,200	0	7,200
34	Logging Services OH Logs, Sidewall Cores, Mud Log.	110,000	0	110,000
36	Production Testing	0	0	0
37	Swabbing, Snubbing, Coiled Tubing	0	0	0
39	Stimulation	0	0	0
43	Consultants	0	0	0
44	Technical Contract Services	0	0	0
45	Roustabout Labor Casing Crews, Welders.	15,000	2,000	17,000
46	Miscellaneous	5,000	0	5,000
49	Packer Rental	0	0	0
53	Environmental Cost	5,000	0	5,000
54	Disposal Cost Trash Baskets, Toilets.	2,000	0	2,000
60	District Tools Company Owned Equipment.	5,000	0	5,000
72	Overhead Rig Days @ \$141/day.	8,500	300	8,800
	<b>Total Intangible Cost</b>	<b>\$1,355,100</b>	<b>\$38,600</b>	<b>\$1,393,700</b>

## Tangible Costs

80	Casing	80'	30" Conductor	3,200	315,700	27,500	343,200
		500'	20"	23,000			
		3100'	13-3/8"	86,000			
		7425'	9-5/8"	153,500			
		4775'	7"	50,000			
		2625'	5"	27,500			
81	Tubing				0	0	0
84	Casing & Tubing Equipment				13,000	11,000	24,000
86	Wellhead Equipment		20"X13-3/8"X9-5/8" (10,000 psi)		30,000	0	30,000
	<b>Total Tangible Cost</b>				<b>\$358,700</b>	<b>\$38,500</b>	<b>\$397,200</b>
	<b>Total Cost</b>				<b>\$1,713,800</b>	<b>\$77,100</b>	<b>\$1,790,900</b>

All Costs include tax where applicable.



**Meridian Oil Inc.**  
**Facilities Estimate**

Well Name: Marcotte #2  
Location: Sec 8, T31N R10W  
AFE Type: 01-Exploration  
Formation: Pennsylvanian

Prepared By: C.E. Lane *CEL*  
Date: 3/17/97  
Approved By: \_\_\_\_\_  
Date: \_\_\_\_\_

**Tangible Costs**

Account Number	Estimated Days:	Total Estimated Cost
247		
02	Labor-Contract, Roustabout, Consultants	15,000
03	Company Vehicles	0
08	Location, Roads & Canals	0
12	Overhead	0
17	Damages, Property Losses	0
20	Equip. Coating and Insulation	0
26	SWD Filtering	0
27	Separators	0
28	Gas Sweetening	0
29	Pumping Units	0
31	Prime Mover	0
32	Tanks	9,500
33	Metering Equipment	15,000
34	Flow Line	0
35	Compressors	0
36	Building	0
39	Flowlines, Piping, Valves & Fittings	11,000
43	Safety	0
44	Technical Contract Svc.	0
47	Rental Compressors & Maintenance	0
48	Rental Equipment	0
49	Cathodic Protection	12,000
50	Right Of Way	2,500
51	Minor Pipelines	0
53	Surface Pumps	0
54	Electrical Accessories	0
55	Miscellaneous-Facility Expense	0
57	Pulling Unit Costs	0
60	Oper. Owned Equip/Facilities	0
62	Env. Compliance-Assessment	0
63	Env. Compliance (Remediation)	0
68	Direct Labor	0
69	Benefits	0
70	Payroll Taxes and Insurance	0
72	Overhead (Contingency 5%)	0
73	Freight/Transportation	0
81	Tubing	0
82	Rods	0
83	Downhole Pumps	0
84	Alternative Artificial Lift Equip.	0
86	Convent Artificial Lift Wellhead Equip.	0
88	Communication Systems	0
95	Employee Meals	0
96	Gas Dehydrator	54,000
<b>Total Facility Cost</b>		<b>119,000</b>

Meridian Oil Inc.  
Completion Estimate

Well Name: Marcotte #2  
Location: 31N-10W-Sec. 8  
AFE Type: New Drill - 01  
Formation: Pennsylvanian

Prepared By: C. E. Lane  
Date: 3/17/97  
Approved By: \_\_\_\_\_  
Date: \_\_\_\_\_

*C. E. Lane*

**Intangible Costs**

Account Number	Estimated Days: 15	Total Estimated Cost
249		
02	Location, Roads or Canals	\$100
03	Construction and Maintenance	\$5,000
04	Surface Restoration	\$9,000
05	Move-in, Move-out	\$6,250
06	Fees of Contractor - Footage	\$0
07	Fees of Contractor - Daywork	\$59,950
08	Fire and Safety Equip.	\$8,500
09	Drilling Fluid System - Liquids	
10	Gas and Air Drilling	\$25,000
11		
12	Specialty Fluids and Chemicals	\$500
14	Sal/Brine Water	\$2,500
15	Onsite Disposal Svc	
16	Fresh Water	\$15,000
17	Bits	\$750
18	Primary Cement & Svc's	\$0
19	Remedial Cementing	\$2,000
23	Fuel / Electricity	\$2,250
24	BOP & Wellhead Rentals(Surface)	\$6,000
25	Drill Work String Rentals	\$1,500
26	Fishing Tool Rentals	\$0
27	Tank Rentals	\$4,000
28	Other Rental	\$3,500
29	Transportation	\$2,250
30	Offsite Disposal Service	
33	Tubular Inspection	\$1,000
34	Cased Hole Services	\$30,000
36	Production Testing	
37	Swabbing & Coiled Tubing	
38	Stimulation	\$10,000
39	Fracturing	\$50,000
40	Casing Crews and Laydown	
41	Gravel Pack/Sand Control	
42	BOP Testing	
43	Consultants	\$10,650
44	Technical Contract Svc	
45	Roustabout Labor	\$3,000
46	Miscellaneous	\$450
48	Communication Systems	\$500
49	Packer Rental	\$2,200
50	Pumping Charges	
60	Oper. Owned Equip/Facilities	
62	Env. Compliance-Assessment	
63	Env. Compliance (Remediation)	
65	Company Vehicles	
68	Direct Labor	
69	Benefits	
70	Payroll Taxes and Insurance	
72	Company Supervisor	
74	Employee Expense	
79	Employee Meals	
	<b>Total Intangibles</b>	<b>\$261,850</b>
	<b>Tangible Costs</b>	
80	Casing	\$0
81	Tubing and Tiebacks	\$72,223
82	Packers and Bridge Plugs	\$25,000
84	Casing/Liner Equipment	
85	Tubing Equipment	\$3,000
86	Wellhead Equipment & Tree Tbg spool, flange, and tree	\$45,000
	<b>Total Tangibles</b>	<b>\$145,223</b>
<b>Total Completion Cost</b>		<b>\$407,073</b>