

DOYLE HARTMAN
OIL OPERATOR
500 N. MAIN STREET
MIDLAND, TEXAS

AUTHORIZATION FOR EXPENDITURE AND DETAIL

BEFORE EXAMINER CATANACH

Oil Conservation Division

Exhibit No. 15

Case No. 9994

WELL ESTIMATE

LEASE NAME State "A" Com WELL NO. 5 W.I. 100%

COUNTY Lea STATE New Mexico FIELD Eumont (Gas)

LOCATION: NE/4 SE/4 Section 5, T-21-S, R-36-E

DRILLING INTANGIBLES:

	PRODUCER 42350	DRY HOLE 42350
1. Drilling Cost 3850 Feet @ \$11.00 Per Foot		
2. Day Work 2 days @ \$3500/day	7000	7000
3. Coring Service Well Surveys OH Logs	10200	10200
4. Bits and Reamers		
5. Testing		
6. Directional Drilling		
7. Fuel Water	8000	5500
8. Mud 4700 Mud Logging 1800	6500	6500
9. Cementing Service Cement Floats 12000	12000	3200
10. Company Labor Contract Labor	1500	1500
11. Surface Damages and Right-of-Way	2500	2500
12. Digging Pits Filling Pits	500	500
13. Pit Lining	800	800
14. Roads & Bridges 1500 Dredging & Grading 7500	9000	
15. Acidizing 6500 Fracturing 145000 Perforating 2000	153500	---
16. Plugging		4500
17. Trucking Cost	3000	1500
18. Development Superintendence 12/7 days @ \$ 500 /day	6000	3500
19. Rental Equipment BOP, frac tanks	5300	1300
20. Swabbing and Testing	6500	---
21. Legal and Professional Expenses:		
Product Price Determination NGPA file	750	
Regulatory Hearings State filings Other Location Stake	1200	1200
22. Abstracts and Title Opinions	7500	7500
23. Geological, Geophysical and Land Support	2200	2200
24. Other Costs		
25. Contingency @ 10 %	28630	10175
Total Intangibles	314930	111925

WELL EQUIPMENT:

26. Casing 450 Ft. of 9-5/8" @ 12.00 Per Ft. (Used)		
3850 Ft. of 7" @ 8.50 Per Ft. (LS)		
3800 Ft. of 2-3/8" @ 2.30 Per Ft.	38125	5400
27. Tubing	8740	
28. Casing Head	1350	1350
29. Xmas Tree or Pumping Connections	5600	---
30. Pumping Unit	15000	
31. Engine/Motor Controller and Power System	7800	
32. Sucker Rods	4000	
33. Pump	1800	
34. Tank Battery	3500	
35. Separator or Dehydration Equip.	3300	
36. Metering Equipment		
37. Flow Lines	2100	
38. Guards and Fences	800	
39. Other Costs Anchors	600	
40. Contingency @ 10 %	9272	675
Total Tangibles	101987	7425
TOTAL COST OF WELL	416917	119350

Share at %

REMARKS:

Originated by Mike Stewart Title Engineer Date 5-22-90

Approved Title Date

DOYLE HARTMAN
OIL OPERATOR
500 N. MAIN STREET
MIDLAND, TEXAS

AUTHORIZATION FOR EXPENDITURE AND DETAIL GATHERING SYSTEM ESTIMATE

LEASE / SYSTEM NAME: State "A" Gathering - State A Com No. 5

LOCATION: SE/4 Section 5 & NE/4 Section 8 T-21-S R-36-E COUNTY: Lea STATE: NM

WORK REQUIRED: Ditch, Lay & Bury 6" SDR Poly GAS Gathering Line to NNG 10" Line No. 107

CONNECTION LENGTH: 3000' SIZE LINE REQUIRED: 6" SDR Polyethylene

GATHERING SYSTEM

INTANGIBLES:

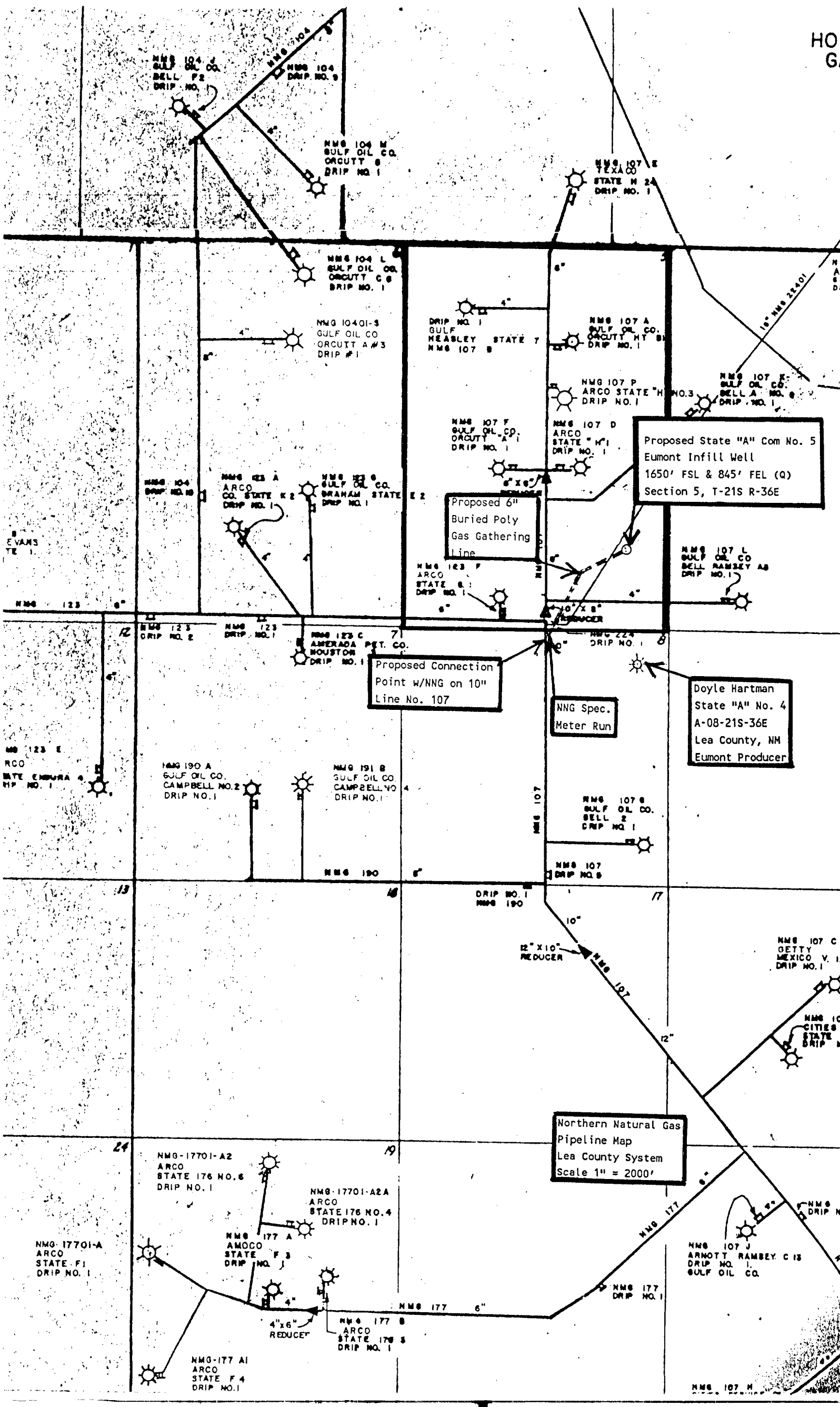
1.	Row & Damages	<u>181.82</u>	Rods @	<u>25</u>	Per Rod	<u>4545</u>	
			Rods @		Per Rod		<u>4545</u>
2.	Survey & Stake Row						
3.	Location - Roads - Meter Sites - Compressor Sites						
4.	Installation Cost - Pipe	<u>3000</u>	Ft Of	<u>6" poly</u>	@	<u>2.75</u>	Per Ft
			Ft Of		@		Per Ft
			Ft Of		@		Per Ft
			Ft Of		@		Per Ft
							<u>8250</u>
5.	Installation Cost - Meters						<u>2300</u>
6.	Installation Cost - Compressors/Separators/Dehydrators						
7.	Installation Cost - Other						
8.	Line Inspection Service						
9.	X-Ray Services						
10.	Cathodic Protection Service						
11.	Trucking						
12.	Rental Equipment						
13.	Legal Services						<u>150</u>
14.	Superintendence						
15.	Consultant Services						
16.	Other Costs						
17.	Contingency @		<u>10</u>	%			<u>1525</u>
							<u>16770</u>
						Total Intangibles	

GATHERING SYSTEM EQUIPMENT:

18.	Pipe	<u>3000</u>	Ft. Of	<u>6" poly</u>	@	<u>4.00</u>	Per Ft	
			Ft. Of		@		Per Ft	
			Ft. Of		@		Per Ft	
			Ft. Of		@		Per Ft	<u>12000</u>
19.	Tanks							
20.	Separation Equipment							
21.	Drips							
22.	Meter Runs & Meters	<u>1</u>		<u>4" NNG</u>	Inch @	<u>6500</u>	Ea	
		<u>1</u>		<u>4" Check</u>	Inch @	<u>3650</u>	Ea	<u>10150</u>
23.	Pig Launchers & Receiver Fac							
24.	Valves - 4" & Over							<u>2500</u>
25.	Valves - Under 4"							<u>1000</u>
26.	Fittings - Ells, Tees, Etc							<u>1200</u>
27.	Valve Boxes							
28.	Road Crossings							
29.	Guards and Fences							
30.	Buildings & Structures							
31.	Power System and Motor Controller							
32.	Gas Compressors		Stages		Hp		Rated MCFPD	
33.	Gas Dehydration			BTU's			Rated MCFPD	
34.	Other Costs							
35.	Contingency @			%				<u>2685</u>
							Total Tangibles	<u>29535</u>
							TOTAL COST OF SYSTEM	<u>46305</u>
						Share At	%	

REMARKS: Connect proposed infill Eumont State A Com #5 (1650' FSL & 845' FEL Section 5,
T-21-S, R-36-E to NNG Sales Facilities on 10" line No. 107 in NW/4 NE/4 Section 8
T-21-S, R-36-E, Lea County, New Mexico

Originated By Michael Stewart Title Engineer Date 6-4-90
Approved _____ Title _____ Date _____



Proposed State "A" Com No. 5
Eumont Infill Well
1650' FSL & 845' FEL (Q)
Section 5, T-21S R-36E

Proposed 6"
Buried Poly
Gas Gathering
Line

Proposed Connection
Point w/NNG on 10"
Line No. 107

NNG Spec.
Meter Run

Doyle Hartman
State "A" No. 4
A-08-21S-36E
Lea County, NM
Eumont Producer

Northern Natural Gas
Pipeline Map
Lea County System
Scale 1" = 2000'