

FLUID SAMPLE DATA				Date 7-22-73		Ticket Number 714912	
Sampler Pressure _____ P.S.I.G. at Surface Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud _____ Tot. Liquid cc. _____ Gravity _____ ° API @ _____ ° F Gas/Oil Ratio _____ cu. ft./bbl.				Kind of Job OPEN HOLE Halliburton District FARMINGTON		Tester MR. DAVIS Witness MR. SCHALK	
				Drilling Contractor ARAPAHOE DRILLING COMPANY IC S			
EQUIPMENT & HOLE DATA							
				Formation Tested Gallup Elevation _____ Ft. Net Productive Interval 120' Ft. All Depths Measured From Rotary Kelly Bushing Total Depth 7717' Ft. Main Hole/Casing Size 7 7/8" Drill Collar Length 545' I.D. 2 1/4" Drill Pipe Length 7022' I.D. 3.826" Packer Depth(s) 7592' - 7597' Ft. Depth Tester Valve 7567' Ft.			
Recovery Water _____ @ _____ ° F. _____ ppm Recovery Mud _____ @ _____ ° F. _____ ppm Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm Mud Pit Sample _____ @ _____ ° F. _____ ppm Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm Mud Weight 11.4 vis 89 cp		RESISTIVITY CHLORIDE CONTENT					
TYPE AMOUNT Cushion _____ _____ Recovered 10 Feet of Drilling mud Recovered _____ Feet of Recovered _____ Feet of Recovered _____ Feet of Recovered _____ Feet of		Depth Back Pres. Valve _____ Surface Choke 1/4" ADJ. Bottom Choke 3/4"					
Remarks Opened tool for 78 minute first flow with a strong blow - gas to surface in 2 minutes. Gas gauged on Pitot tube at 10 million cubic feet per day through 3/4" choke. Closed tool for 62 minute initial closed in pressure.							
Q=Questionable							
TEMPERATURE Gauge No. 1475 Depth 7571' Ft. 24 Hour Clock		Gauge No. 105 Depth 7713' Ft. 24 Hour Clock		Gauge No. _____ Depth _____ Ft. Hour Clock		TIME Tool _____ A.M. Opened 16:50 P.M. Tool _____ A.M. Closed 19:10 P.M.	
Est. _____ ° F. Blanked Off NO		Blanked Off YES		Blanked Off _____			
Actual 160 ° F.		Pressures		Pressures		Pressures	
		Field Office		Field Office		Field Office	
Initial Hydrostatic 4929 4859		4982 4919				Reported Computed Minutes Minutes	
Flow Initial 1358 1620Q		1907 2622Q					
Flow Final 1790 1810		2079 2088				80 78	
Closed in 3987 3998		3963 4002				60 62	
Flow Initial _____		_____				_____	
Flow Final _____		_____				_____	
Closed in _____		_____				_____	
Flow Initial _____		_____				_____	
Flow Final _____		_____				_____	
Closed in _____		_____				_____	
Final Hydrostatic 4929 4859		4982 4919					

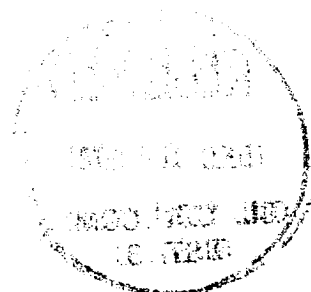
FORMATION TEST DATA

LITTLE B 90217 50M 2/72

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Legal Location Sec - Twp - Rng
 Lease Name
 33 - 32N - 5W
 Well No.
 Test No.
 Field Acc
 Meo. From Tester Valve
 PASIN DAKOTA
 Country
 RIO ARIBA
 STATE NEW MEXICO
 ARAPAHOE DRILLING COMPANY
 LONE STAR INDUSTRIES

100-443888-100



ELLIOTT A. RIGGS

Petroleum Geologist

GEOLOGICAL REPORT

of

JOHN E. SCHALK #2 LONE STAR INDUSTRIES-SCHALK-62

NW Sec 33-T32N-R5W
Rio Arriba Co., New Mexico

WELL DATA

Location: 1760' FNL & 1190' FWL, Sec 33-T32N-R5W,
Rio Arriba Co., New Mexico

Elevation: KB 6808'
DF 6807'
GL 6796'

Depth: All depths measured from KB

Commenced: Spud 9:30 PM, June 28, 1973

Hole Sizes: 15" to 339'
8 3/4" to 1746'
7 7/8" to 7715'

Casing Record: 10 3/4" to 334'
5 1/2" to 7660'

Cores: None

Drill Stem Tests: DST #1 7627-7717' Misrun
DST #2 7597-7717'

Total Depth: Driller: 7715'
Schlumberger: 7717'

Logs: Schlumberger: Comp Neut-FM Den 1900-7716'
Comp FM Density 1900-7716'
Geologist: Sample log 7000-7717'
Drilling time log 7000-7717'
Mud Logger: None

Quality of Samples: Fair 7000-7717'

FLUID SAMPLE DATA				Date 7-22-73		Ticket Number 714911	
Sampler Pressure _____ P.S.I.G. at Surface Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud _____ Tot. Liquid cc. _____ Gravity _____ * API @ _____ *F. Gas/Oil Ratio _____ cu. ft./bbl.				Kind of Job OPEN HOLE Halliburton District FARMINGTON		Tester MR. DAVIS Witness MR. SCHALK	
Drilling Contractor ARAPAHOE DRILLING COMPANY DR				EQUIPMENT & HOLE DATA			
				Formation Tested Gallup			
				Elevation _____ Ft.			
				Net Productive Interval 90' _____ Ft.			
				All Depths Measured From Rotary Kelly Bushing			
				Total Depth 7717' _____ Ft.			
				Main Hole/Casing Size 7 7/8"			
				Drill Collar Length 575' I.D. 2 1/2"			
				Drill Pipe Length 7022' I.D. 3.826"			
				Packer Depth(s) 7622-7627' _____ Ft.			
				Depth Tester Valve 7597' _____ Ft.			
TYPE		AMOUNT		Depth Back		Surface	
Cushion				Ft. Pres. Valve		Choke 3/4" Adj. Bottom Choke 3/4"	
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks PACKER SEAT FAILED							
TEMPERATURE		Gauge No. 1475		Gauge No. 105		Gauge No. _____	
		Depth: 7601 Ft.		Depth: 7713 Ft.		Depth: _____ Ft.	
Calc.		24 Hour Clock		24 Hour Clock		Hour Clock	
Est. 150 *F.		Blanked Off No		Blanked Off Yes		Blanked Off _____	
Actual *F.		Pressures		Pressures		Pressures	
		Field Office		Field Office		Field Office	
Initial Hydrostatic		4737		4830			
Flow						Reported Computed	
Initial						Minutes Minutes	
Final							
Closed In							
Flow							
Initial							
Final							
Closed In							
Flow							
Initial							
Final							
Closed In							
Final Hydrostatic		4747		4830			

Legal Location Sec. - Twp. - Rng. **33-32N-5W**
 Lease Name **LEONE NAME**
 Well No. **1141**
 Test No. **1141**
 Tested Interval **1141**
 Field Area **BASIN DAKOTA**
 County **RIO ARriba**
 State **NEW MEXICO**

LONE STAR INDUSTRIES-ARAPAHOE
 Lease Owner/Comp. Drilling Company

However, the overall time for the drilling, Logging, Testing and completion was comparable to a Dakota completion due to the very unusual conditions encountered. As indicated by the amount of daywork time not billed at daywork rates, the difference between the total depths for Gallup and Dakota wells has been adjusted for in this manner.

