

GEOLOGICAL ATTACHMENT #1

James Ranch Unit Type Log

Schlumberger

SIMULTANEOUS

**COMPENSATED NEUTRON-
LITHO-DENSITY**

COUNTY	FIELD	LOCATION	WELL	COMPANY	COMPANY	BASS ENTERPRISES PRODUCTION CO.				
					WELL	JAMES RANCH UNIT NO. 30				
					FIELD	LOS MEDANOS				
					COUNTY	EDDY	STATE	NEW MEXICO		
					LOCATION	2310 FEL 1980 FEL				Other Services: DITE MSCT
					API SERIAL NO.	SECT.	TWP.	RANGE		
					*	6	23S	31E		
Permanent Datum		GL	Elev.	3311.0 F		Elev.: K.B.3330.0				
Log Measured From		KB	19.0 F	above Perm. Datum		D.F.3328.0				
Drilling Measured From		KB				G.L.3311.0				
Date		11-NOV-1993								
Run No.		ONE								
Depth Driller		11305.0 F								
Depth Logger (Schl.)		11305.0 F				Delaware				
Btm. Log Interval		11303.0 F								
Top Log Interval		100.0 F								
Casing-Driller		8.625	@ 3855.0 F		@		@			
Casing-Logger		3855.0 F								
Bit Size		7.875	@ 11305.0 F		@		@			
Type Fluid in Hole		GEL-PAC-STARCH								
Dens.	Visc.	8.80 LB/G	42.0 S	Bone Spring						
pH	Fld. Loss	10.5	10.0 C3							
Source of Sample		PIT								
Rm @ Meas. Temp.		567 OHMM	@ 55.0 DEGF	@						
Rmf @ Meas. Temp.		450 OHMM	@ 55.0 DEGF	@						
Rmc @ Meas. Temp.		880 OHMM	@ 55.0 DEGF	@						
Source: Rmf	Rmc	PRESS	PRESS							
Rm @ BHT		204 OHMM	@ 165. DEGF	@						
TIME	Circulation Ended	1600								
	Logger on Bottom	SEE LOG								
Max. Rec. Temp.		165. DEGF								
Equip.	Location	8329	ROSWELL							
Recorded By		PAT SULLIVAN								
Witnessed By		GREG SPENCER								

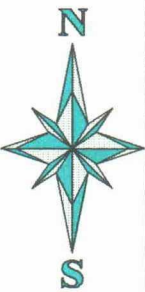
Geological Attachment #2

Bass Enterprises Production Co.

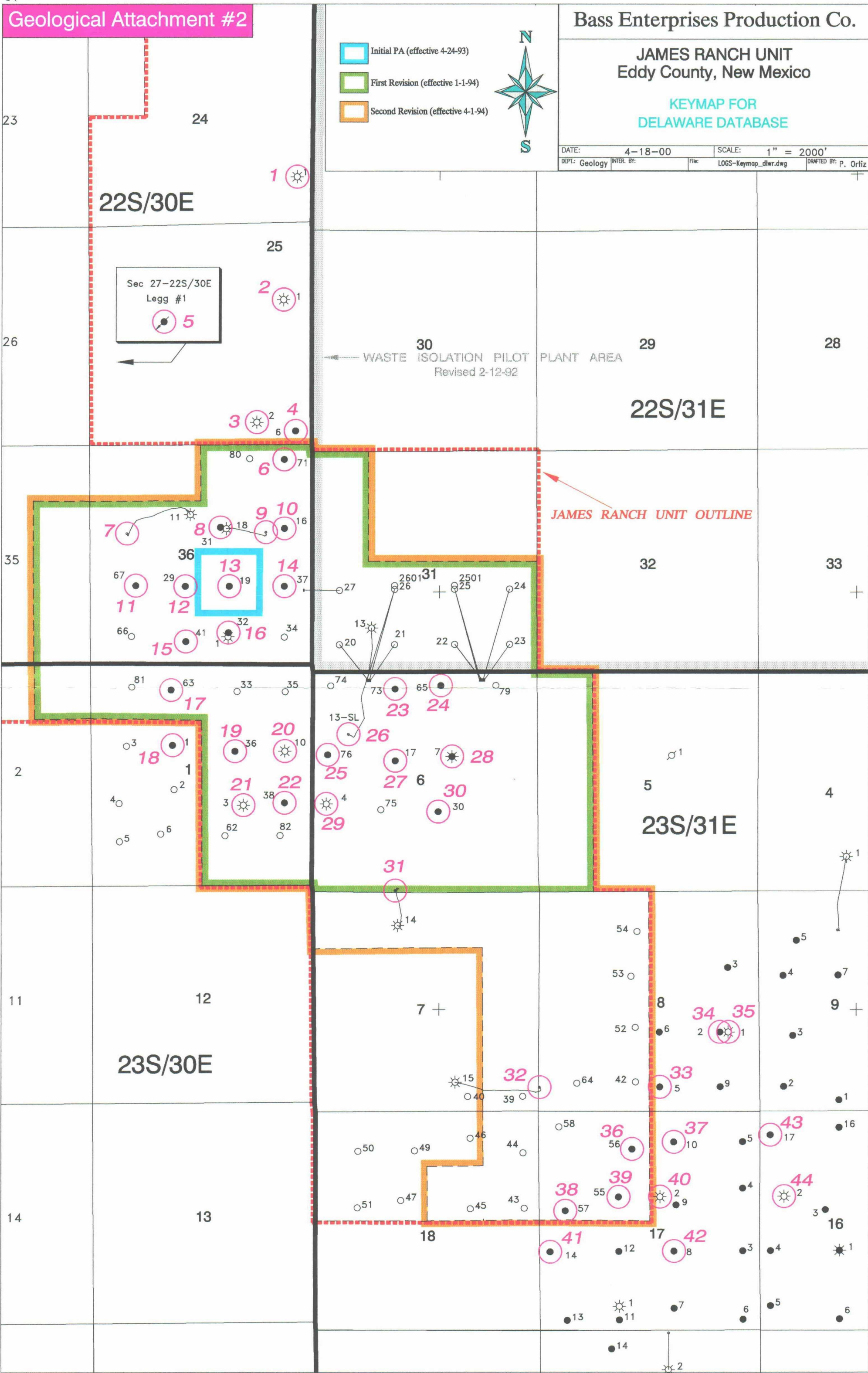
JAMES RANCH UNIT
Eddy County, New Mexico

KEYMAP FOR
DELAWARE DATABASE

- Initial PA (effective 4-24-93)
- First Revision (effective 1-1-94)
- Second Revision (effective 4-1-94)



DATE: 4-18-00 SCALE: 1" = 2000'
DEPT.: Geology INTER. BY: File: LOGS-Keymap_dlw.dwg DRAFTED BY: P. Ortiz



KEY MAP
James Ranch Unit
Delaware
Proposed Participating Area

SEC-TWN-RNG	KEY #	WELL NAME/#
Section 24-T22S-R30E	#1	Apache "24" Federal #1
Section 25-T22S-R30E	#2	Apache "25" Federal #1
	#3	Apache "25" Federal Com. #2
	#4	Apache "25" Federal #6
Section 27-T22S-R30E	#5	Federal Legg #1
Section 36-T22S-R30E	#6	James Ranch Unit #71
	#7	James Ranch Unit #11
	#8	James Ranch Unit #31
	#9	James Ranch Unit #18
	#10	James Ranch Unit #16
	#11	James Ranch Unit #67
	#12	James Ranch Unit #29
	#13	James Ranch Unit #19
	#14	James Ranch Unit #37
	#15	James Ranch Unit #41
	#16	James Ranch Unit #32
Section 1-T23S-R30E	#17	James Ranch Unit #63
	#18	Hudson Federal #1
	#19	James Ranch Unit #36
	#20	James Ranch Unit #10
	#21	James Ranch Unit #3
	#22	James Ranch Unit #38
Section 6-T23S-R31E	#23	James Ranch Unit #73
	#24	James Ranch Unit #65
	#25	James Ranch Unit #76
	#26	James Ranch Unit #13
	#27	James Ranch Unit #17
	#28	James Ranch Unit #7
	#29	James Ranch Unit #4
	#30	James Ranch Unit #30
	#31	James Ranch Unit #14
Section 8-T23S-R31E	#32	James Ranch Unit #15
	#33	North Pure Gold "8" Federal #5
	#34	North Pure Gold "8" Federal #2
	#35	North Pure Gold "8" Federal #1
Section 17-T23S-R31E	#36	James Ranch Unit #56
	#37	Pure Gold "C-17" Federal #10
	#38	James Ranch Unit #57
	#39	James Ranch Unit #55
	#40	Pure Gold "C-17" Federal #2
	#41	Pure Gold "C-17" Federal #14
	#42	Pure Gold "C-17" Federal #8
Section 16-T23S-R31E	#43	Medano "VA" State #17
	#44	Medano "VA" State #2