

OIL CONSERVATION COMMISSION
Alameda DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE 9/29/78

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed SWD ✓ _____
Proposed WFX _____
Proposed PMX _____

Carl Ulvog

Gentlemen:

I have examined the application dated 9/28/78
for the Merrion & Bayless Navajo H #13 K-13-29N-14
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours very truly,

AR Kendrick

J. GREGORY MERRION
PETROLEUM ENGINEER
P. O. BOX 507
FARMINGTON, NEW MEXICO 87401

September 28, 1978

New Mexico Oil Conservation Commission
1000 Rio Brazos
Aztec, NM 87410

Gentlemen:


Enclosed please find our application for approval of Salt Water Disposal into the subsurface. We have forwarded a copy of this application to the Navajo Tribe which is the surface owner.

There are no other subsurface operators within 1/2 mile of the proposed well and therefore we are seeking administrative approval for this application.

Yours truly,

MERRION & BAYLESS

By


STEVEN S. DUNN

SSD/pb

Enclosures



NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR J. Gregory Merrion & Robert L. Bayless		ADDRESS P. O. Box 507, Farmington, NM 87401	
LEASE NAME Navajo H	WELL NO. 13	FIELD Totah Gallup	COUNTY San Juan
LOCATION UNIT LETTER K ; WELL IS LOCATED 1830 FEET FROM THE South LINE AND 1830 FEET FROM THE West LINE, SECTION 13 TOWNSHIP 29N RANGE 14W NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8-5/8"	204'	180	Surface	Circulated 15 sx.
INTERMEDIATE	none				
LONG STRING	4-1/2"	5138'	200	4140 ft.	Calculated
TUBING	2-3/8"	4967	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Mod. "P" @ 4967		
NAME OF PROPOSED INJECTION FORMATION Gallup			TOP OF FORMATION 4990		BOTTOM OF FORMATION 4997
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Perforations		PROPOSED INTERVAL(S) OF INJECTION 4990-4997	
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Gallup Oil Production			HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? No
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH None					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA Surface Alluvium - 100 ft.		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3650		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA none	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.)	MINIMUM 10 bbls	MAXIMUM 500 bbls	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? as required	APPROX. PRESSURE (PSI) less than 500
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE -			WATER TO BE DISPOSED OF Yes	NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? No
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Navajo Tribe, Window Rock, Arizona ATTN: Minerals Supervisor					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL J. Gregory Merrion and Robert L. Bayless are only operators within 1/2 mile of this injection well (see Location Map). Other information: Water to be injected is produced from the Pictured Cliffs and Mesaverde Formations.					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? Yes					
SURFACE OWNER Yes		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes		THE NEW MEXICO STATE ENGINEER Yes	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) Yes		ELECTRICAL LOG Yes		DIAGRAMMATIC SKETCH OF WELL Yes	

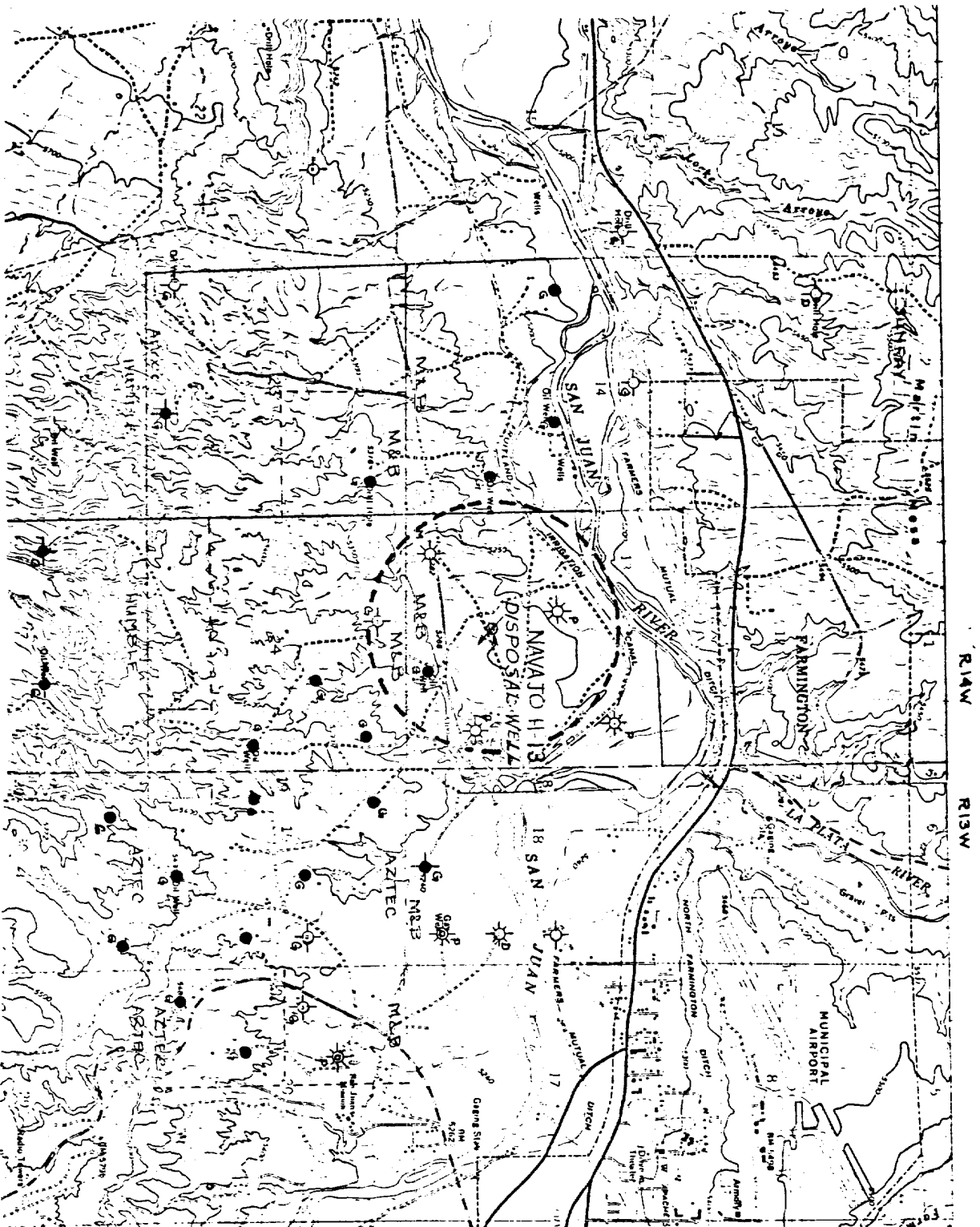
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Steven J. Lum
(Signature)

Engineer
(Title)

9-26-78
(Date)

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well, not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.



LEGEND

- DRY HOLE OR ABANDONED
- GALLUP PRODUCER
- ☼ PICTURE CLIFF PRODUCER
- ☼ DAKOTA PRODUCER

T. 29 N.

MERRION & BAYLESS

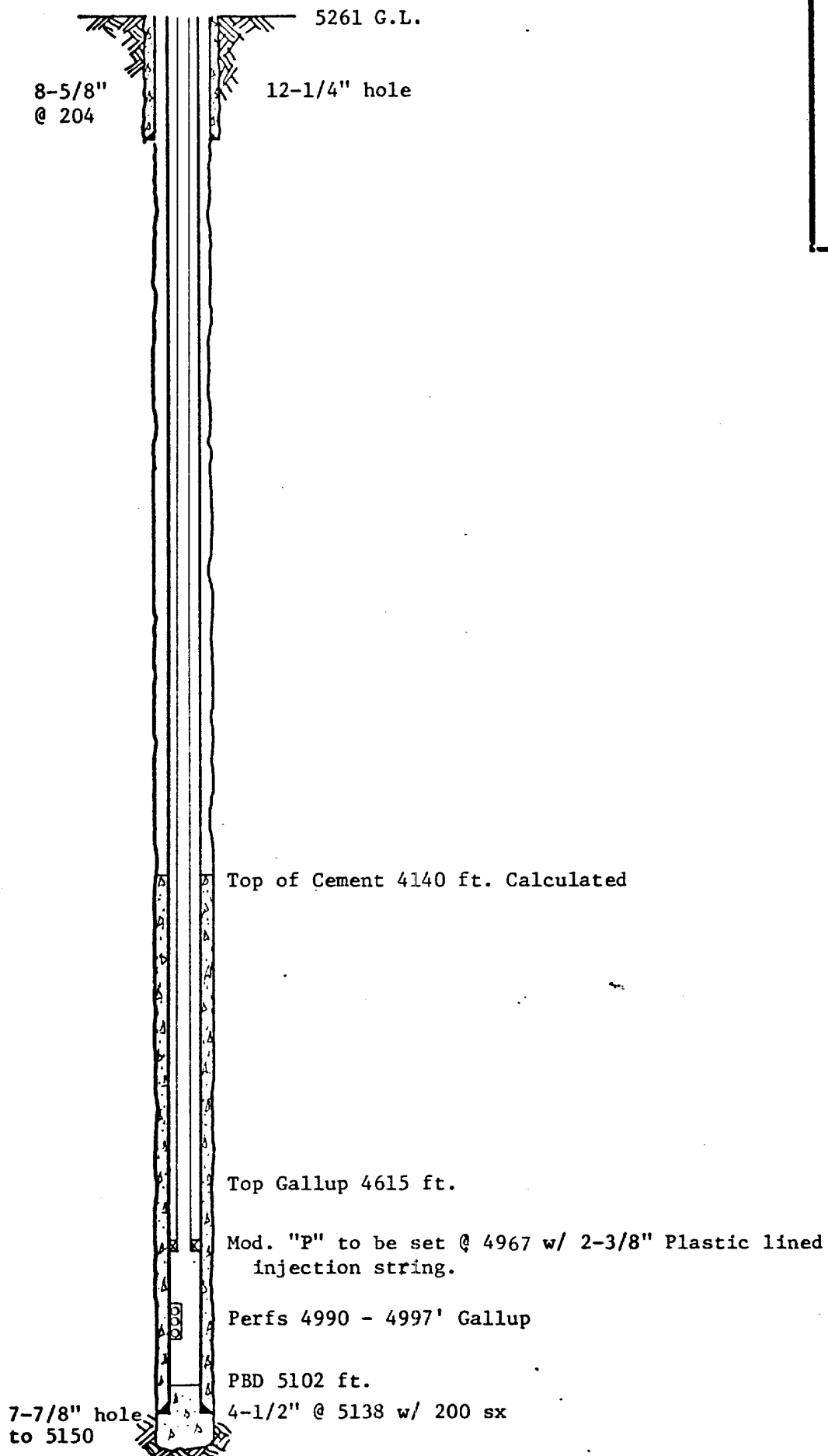
1" = 1/2 MILE 9/27/78 BY: SSD

LOCATION MAP

PROPOSED SALT WATER

DISPOSAL WELL
SAN JUAN COUNTY

NAVAJO H-13
1830 FSL & 1830 FWL
Sec. 13, T29N, R14W
San Juan County



MERRION-BAYLESS

DATE 9-27-78
TIME 10:00 AM
SSD

Wellbore Diagram

Salt Water Disposal

ANNE@MILLS INDUCTION

E NO. COMPANY PAN AMERICAN PETROLEUM CORP.

WELL NAWASO TRIBAL H-13

FIELD TOTAH GALLUP

COUNTY SAN JUAN STATE NEW MEXICO

LOCATION: 1830 FSL & 1830 FWL

Other Services

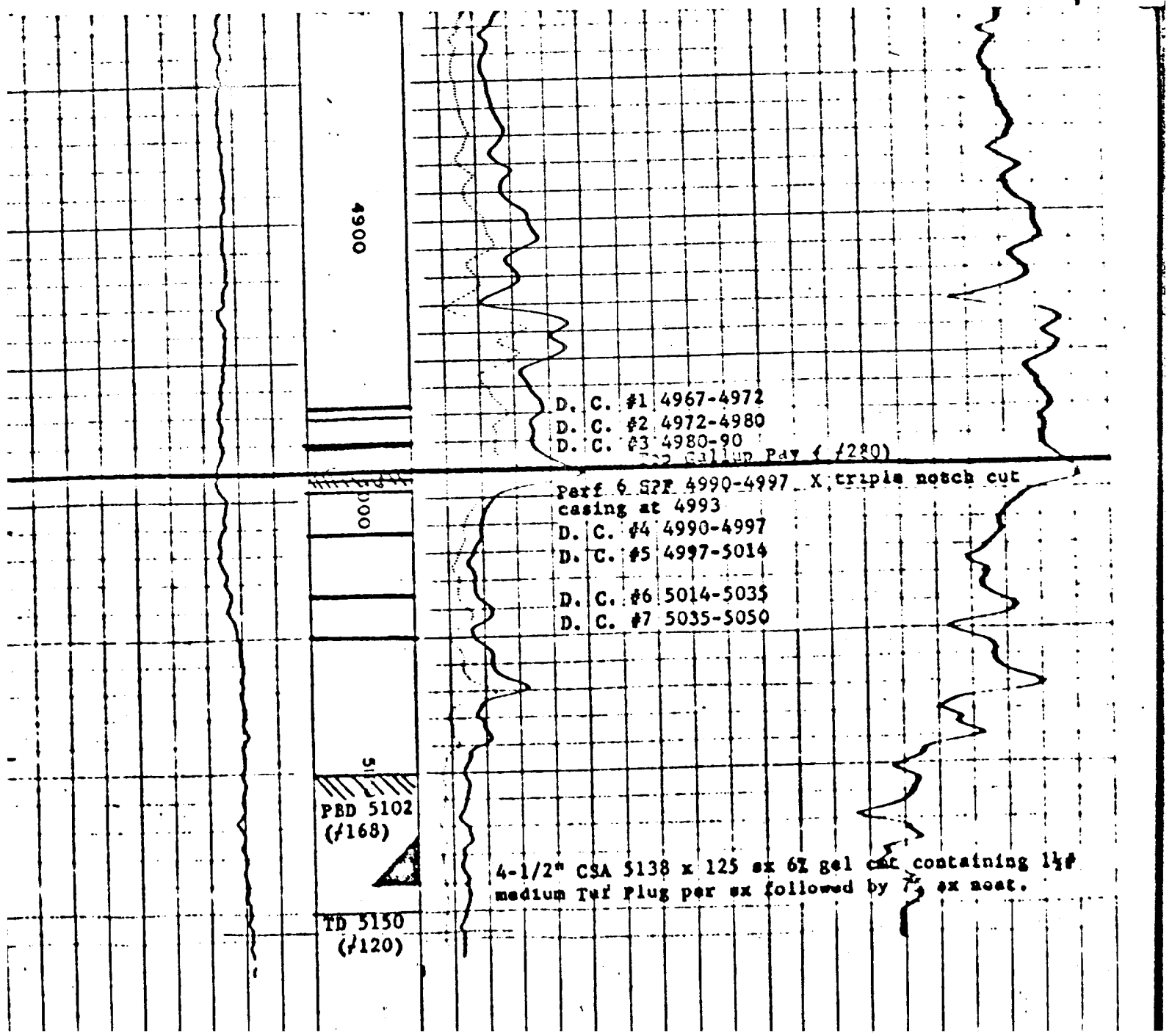
NONE

SEC 13 TWP 29N RGE 14W

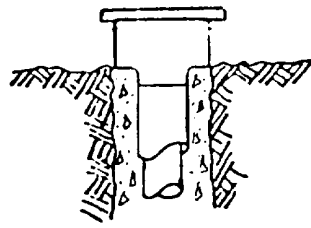
Parent Datum G. L. Elev. 5261
Measured from K B 9 Ft. Above Permanent Datum KB 5270
ing Measured from K B OR 9' ABOVE G. L. DF 5269
GL 5261

No.	7-22-61	ONE	COMPTON	
th—Driller	5155			
th—Logger	5160			
th—Logged Interval	5159			
th—Logged Interval	204			
th—Driller	8 5/8 @ 204	@	@	@
th—Logger	204			
Size	7 7/8			
Per Fluid in Hole	CHEMICAL GEL			
osity and Viscosity	9.3	70		
End Fluid Loss				
Use of Sample	FLOW LINE			
@ Meas. Temp.	10 @ 64	@	@	@
@ Meas. Temp.	59 @ 64	@	@	@
@ Meas. Temp.	11 @ 64	@	@	@
Source of Rinf and Rmc	MEASURED			
@ BHT	5 @ 132	@	@	@
Se Stage Circ.	5 HOURS			
Ex. Rec. Temp. Dec. F. 113				

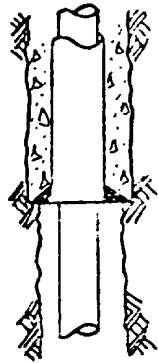
THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-31



NAVAJO H-3
510 FSL & 1980 FEL
O-Sec. 13, T29N, R14W
San Juan Co., New Mexico



Elevation 5327 KB



8-5/8" - 20 lb/ft @ 206 ft. w/ 160 sx



Top of cement 4175 ft. calculated

Perf 5052-5060 ft.

4-1/2" @ 5147' w/ 200 sx
TD @ 5150'

MERRION~BAYLESS

DRAWN BY SSD

APPROVED BY:

SCALE: none

REVISED

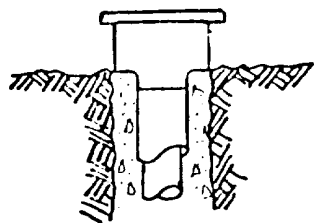
DATE: 9-27-78

Wellbore Schematic

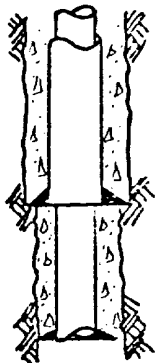
DRAWING NUMBER

Navajo H Lease

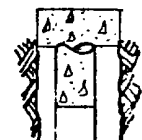
NAVAJO H-4
510 FNL & 2130 FWL
Section 24, T29N, R14W
San Juan County



Elevation 5347' G.R.

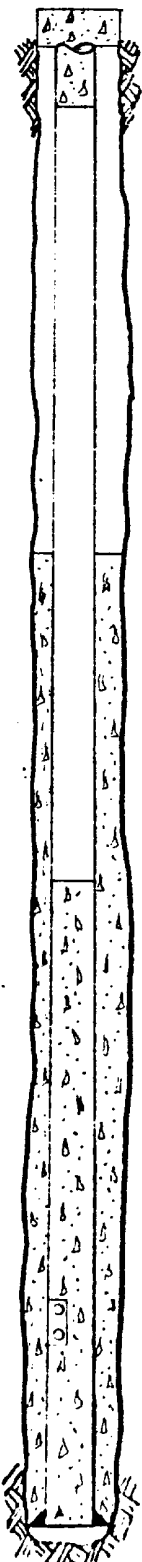


8-5/8" @ 209' w/ 175 sx



4-1/2" casing @ 1119' KB w/ 250 sx

Cut 4-1/2" @ 1632 Spotted 30 sx
plug 1682-1582



=Top of Cement 3817' calculated

Top of cement calculated 4810'

Top of Gallup 4681'

Old Perfs squeezed off 5048-5056'

4-1/2" @ 5156 ft.

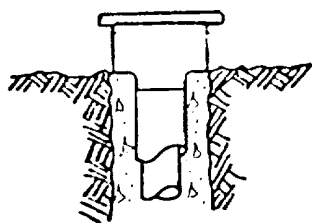
MERRION~BAYLESS

SCALE: None	APPROVED BY:	DRAWN BY: SSD
DATE: 9-27-78		REVISED

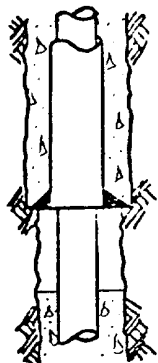
Wellbore Schematic

DRAWING NUMBER	Navajo H Lease
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NAVAJO H-5
705 FSL & 660 FWL
M-Sec. 13, T29N, R14W
San Juan County

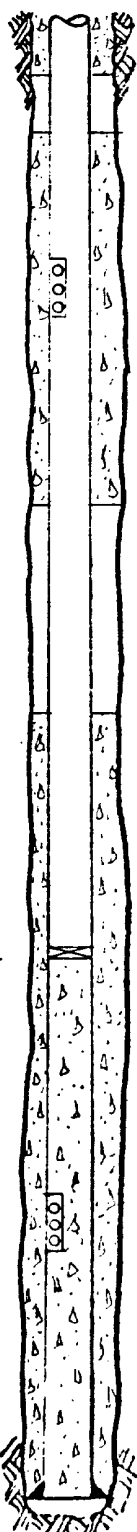


Elevation 5278 G.L.



8-5/8" @ 191 ft w/ 190 sx

Top cement @ 2400



Squeeze corrossion w/ 270 sx @ 2810'

Top cement @ 2872

Mesa Verde perfs 3355-65'

Stage collar @ 3742 Cement w/ 250 sx

Top cement @ 4166

Retainer 4868 on plug back

Old Gallup perfs 4979-86' squeezed w/ 50 sx

4-1/2" @ 5081' w/ 450 sx

MERRION~BAYLESS

APPROVED BY:

DRAWN BY SSD

REVISED

SCALE: None

DATE: 9-27-78

Wellbore Schematic

DRAWING NUMBER

Navajo H - 5