

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-06319	Pool Code 72439/82329/72319	Pool Name So. Blanco PC/Otero Chacra/Blanco Mesaverde
Property Code 7350	Property Name Navajo Indian B	Well Number 3
OGRID No. 14538	Operator Name MERIDIAN OIL INC.	Elevation 6010'

10 Surface Location

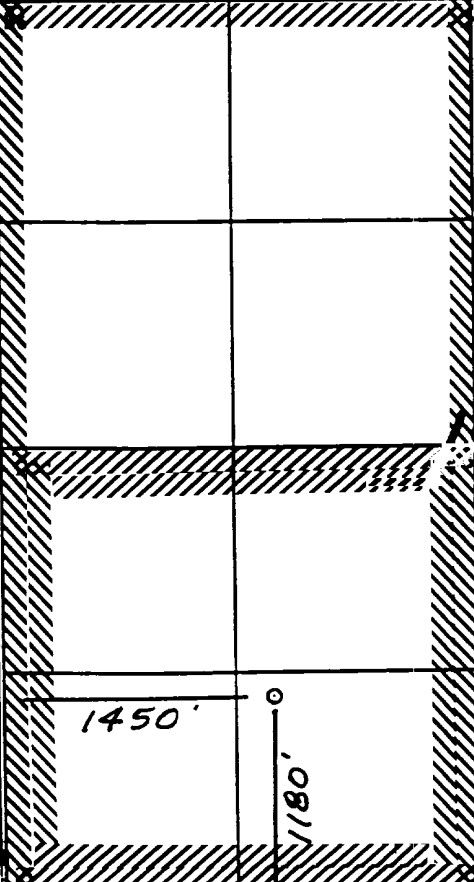
UL or lot no. N	Section 19	Township 27 N	Range 8 W	Lot Idn	Feet from the 1180	North/South line South	Feet from the 1450	East/West line West	County S.J.
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11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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12 Dedicated Acres W/321.44	13 Joint or Infill 160.76	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	Not resurveyed, prepared from a plat dated 5-31-79 by James P. Leese.	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature Peggy Bradfield Printed Name Regulatory Affairs Title 8-29-94 Date
	RECEIVED SEP - 7 1994 OIL CON. DIV. DIST. 3	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief Date of Survey 8-24-94 Signature and Seal of Registered Surveyor 6857 Certificate Number
	RECEIVED SEP 20 1994 OIL CON. DIV. DIST. 3	

NAVAJO INDIAN B #3 MV/PC

Recommended Procedure

Open Chacra & Commingle w/PC & MV

Lat.-Long. = 36.556091 - 107.725586

C 19 27 8

1. Comply to all NMOC, BLM, & MOI, rules & regulations. MOL and RU completion rig. Blow well down. NU 7-1/16" 900 series BOP with flow tee and stripping head. Test operation of rams. NU blooie line and 2-7/8" relief line.
 2. TOH W/ 97 Jts 1" tbg & lay down. TOH w/140 Jts 2-3/8" tbg (@ 4345') & Guiberson Type "A" pkr seal assembly @ 4156'.
 3. Run 5-1/2" "CJ" milling tool on tested 2-3/8" tbg & mill (w/air/mist) & retrieve Guiberson Type "A" pkr @ 4156'. TOH.
 4. MI Wireline Truck. Run CBL from 3500' to top of cmt and pulsed neutron log from 3500'-2800' & 2200'-1900'. Coorelate to open hole GNR log. Set 5-1/2" ret BP @ 3100' & top w/2 sx sand. Hot-shot logs to Production Engr Dept. Chacra perfs will be picked at this time.
 5. Perf Chacra @ about 2982'-90' w/ 4 spf. Perfs will be a total of about 8' (32 holes). Perf w/Tolson jets.
 6. Spot and fill 2 - 400 bbl. frac tanks with 2% KCL water. Filter all water to 25 microns. One tank is for frac gel and one for breakdown. Usable water required for frac is 293 bbls.
 7. Run 5-1/2" pkr on 3-1/2" 9.3# P-110 w/shaved collars (4.25" O.D. 2.992" I.D.) rental frac string & set @ 2700'. Breakdown & attempt to balloff w/2000 gal 15% HCL acid & 80 perf balls. Acid to contain 1 gal/1000 gals water of F75N (surfactant) & 10#/1000 of L58 (corrosion inhibitor). Maximum pressure = 5000 psi. Record breakdown pressures. Lower pkr to 3000' to knock off perf balls. Reset pkr @ 2950'.
 8. Frac Chacra down frac string w/ 40,000 gals. of 70 quality foam using 30# gel as the base fluid & 60,000# 20/40 Arizona sand. Pump at 30 BPM. Monitor bottomhole and surface treating pressures, rate, foam quality, & sand concentration with computer van. Sand to be tagged with 0.4 mCi/1000# Ir-192 tracer. Max. pressure is 6000 psi and estimated treating pressure is 2800 psi. Treat per the following schedule:
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NAVAJO INDIAN B #3 CH, PC, MV - WORKOVER PROCEDURE
Page 2

Stage	Foam Vol. (Gals.)	Gel Vol. (Gals.)	Sand Vol. (lbs.)
Pad	10,000	3,000	----
1.0 ppg	10,000	3,000	10,000
2.0 ppg	10,000	3,000	20,000
3.0 ppg	10,000	3,000	30,000
Flush	(1,080)	(324)	
Totals	40,000	12,000	60,000#

Shut well in after frac for six hours to allow the gel to break.
Treat frac fluid with the following additives per 1000 gallons:

- * 30# LGC8 (Gel)
- * 3.0 gal. AQF2 (Non-ionic Surfactant)
- * 1.0# GVV3 (Enzyme Breaker)
- * 1.0# B-5 (Breaker)

9. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr, or less if sand is observed.

NOTE: The following clean-up procedure is designed to obtain the State required pitot gauges for this triple commingle.

10. When well stops flowing, TOH w/frac string & pkr & lay down. TIH w/notched collar on 2-3/8" tbg & C.O. w/air/mist to BP @ 3100'. Take pitot gauges when possible (CH-PC).
11. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 3100'-2000'.
12. TIH w/5-1/2" pkr on 2-3/8" tbg w/perfed jt just above pkr & bull plug below pkr & land @ 2200'. Take pitot gauges of PC only. Swab in, if necessary. TOH.
13. TIH w/retrieving tool on 2-3/8" tbg and again CO to 3100'. Take pitot gauges when possible (CH-PC). When wellbore is sufficiently clean, retrieve BP & TOH.
14. TIH w/4-3/4" bit on 2-3/8" tbg & CO to 4500' w/air/mist. Take pitot gauges when possible (CH-PC-MV). TOH.
15. TIH with 2-3/8" production tbg with standard seating nipple one joint off bottom to 4500' and again blow well clean. When well is clean, land tbg @ 4300'. Take final pitot gauges, water & oil samples, and gas samples (CH-PC-MV).
16. ND BOP and NU wellhead. Replace any bad valves on wellhead. Rig down & release rig.

NAVAJO INDIAN B #3 CH, PC, MV - WORKOVER PROCEDURE
Page 3

Approved: _____
J. A. Howieson

VENDORS:

Wireline:	Blue Jet	325-5584
Frac & Acid:	Western	327-6222
RA Tagging:	Pro-Technics	326-7133

PMP

Pertinent Data Sheet - NAVAJO INDIAN B #3 PC/MV

Location: 1180' FSL 1450' FWL SEC. 19 T27N R08W, SAN JUAN COUNTY, N.M.

Field: So. Blanco Pictured Cliffs
Blanco Mesaverde

Elevation: 6018' TD: 4546'
PBTD: 4500'

Prop#: 071216900
Lease: I-1419-Ind 8468
DP#: PC=32088B MV=32088A
GWI: 100% - PC, MV, CH
NRI: 87.5% - PC, MV, CH

Completed: 4-13-59

Initial Potential:

PC: 915 MCF/D, SICP= 736 PSI
MV: 1694 MCF/D, SICP=1102 PSI

Casing Record:

Hole Size	Csg. Size	Wt. & Grade	Depth Set	Cement	Top/Cmt
15"	10-3/4"	32.75# H-40	124'	150 sx	N/A
9-5/8"	7-5/8"	26.4# J-55	2344'	200 sx	1404'@ 75% Eff.
6-3/4"	5-1/2"	15.5# J-55	2170'-4546'	273 sx	2170'@ 62% Eff.

Tubing Record: 2-3/8" 4.7# J-55 4345' 140 Jts
Guiberson Type "A" @ 4156'
1" 1.7# C.W. 2017' 97 Jts

Formation Tops:

Ojo Alamo	1120'
Kirtland	1265'
Fruitland	1798'
Pictured Cliffs	2013'
Cliffhouse	3690'
Point Lookout	4284'

Logging Record: GRN

Stimulation: Perf MV @ 4280'-4380', 4408'-30', 4454'-72', w/2 spf & fraced w/100,000 sand in water.

Perf PC @ 2016'-76', 2134'-48', w/2 spf & fraced w/100,000# sand in water.

Workover History: None

Production History: 1st delivered on 6-1-59. Cumulative: MV= 824 MMCF & 2,257 BO. PC = 319 MMCF. MV Tbg=510 psi. PC Tbg=220 psi. PC Csg=225 psi. Bradenhead=0 psi. Line= 200 psi. PC=1168 BTU. MV=1300 BTU.

Pipeline: GCNM

PMP

NAUATO INDIAN B^{#3}
N 19 27 8

GNN

RUN ONE

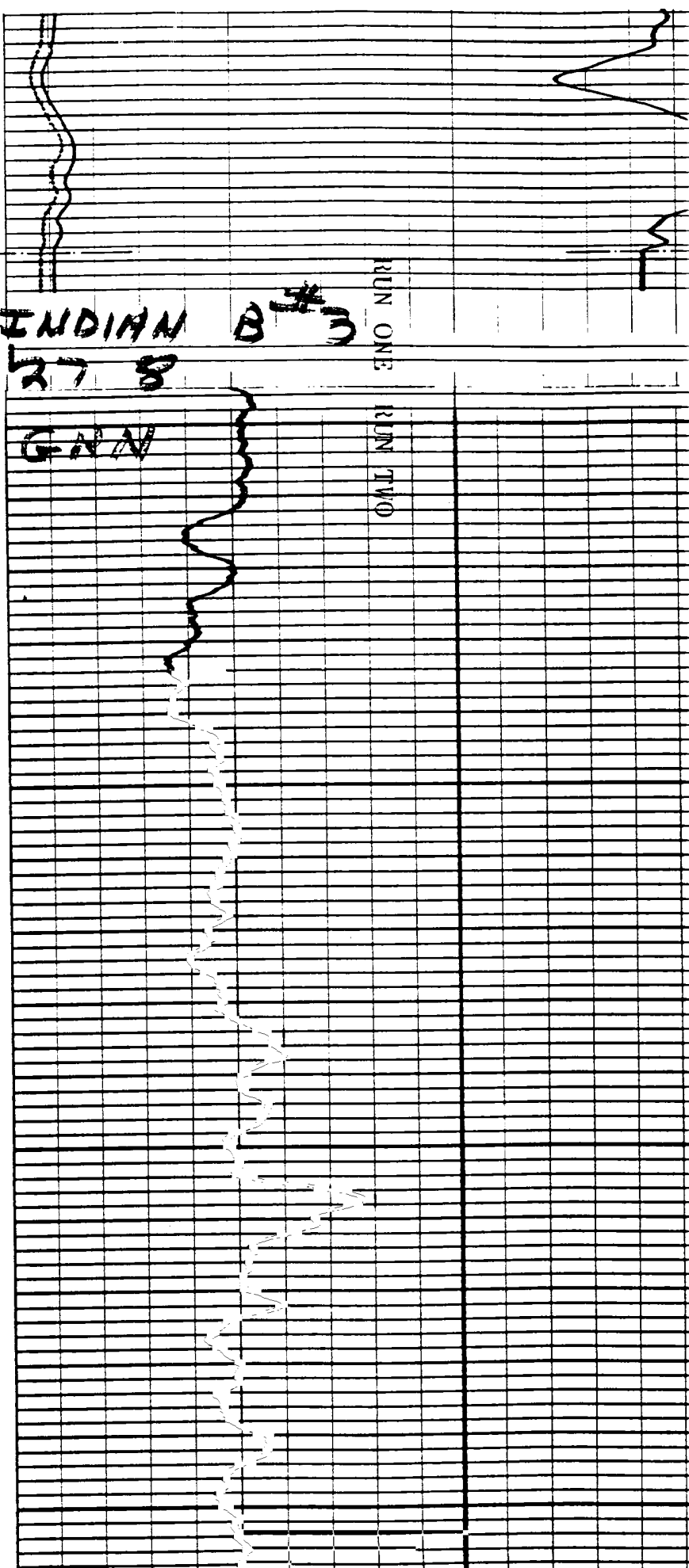
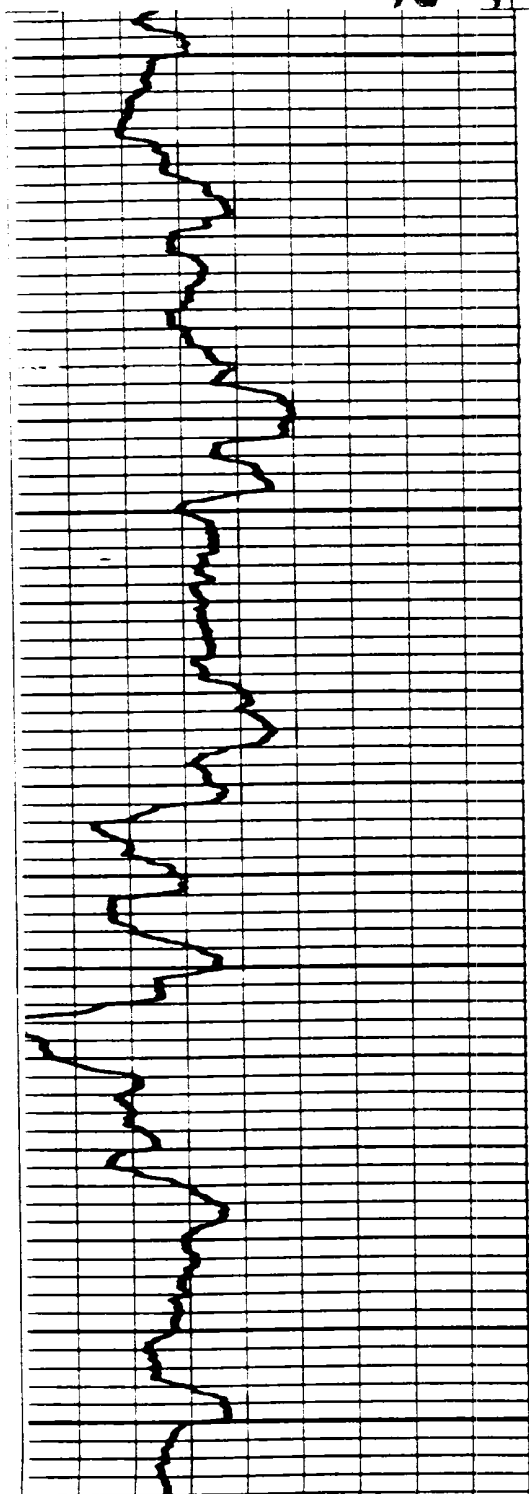
RUN TWO

3000

3050

3100

3150



VAVATO

N 17

27

8

GRN

2900

3000

3100

3200

3300

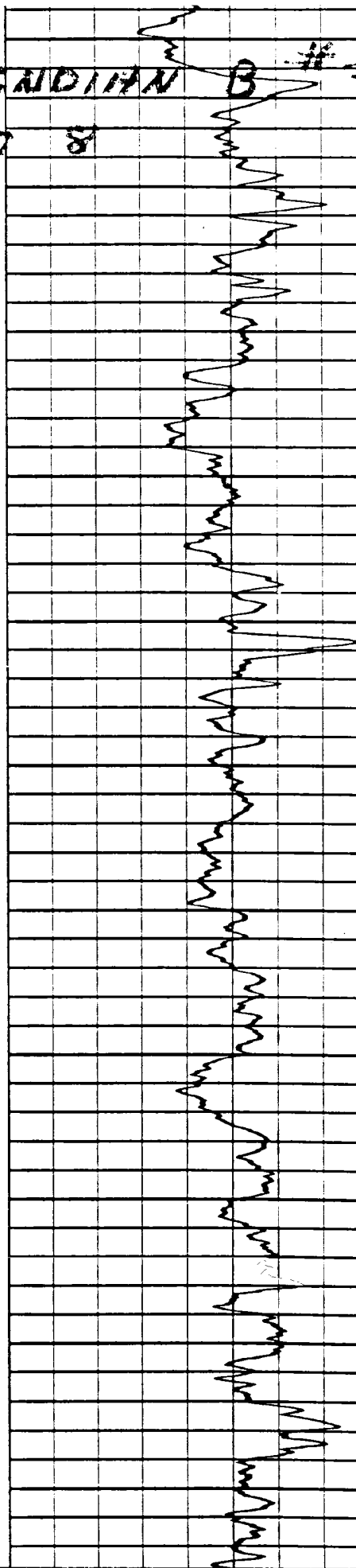
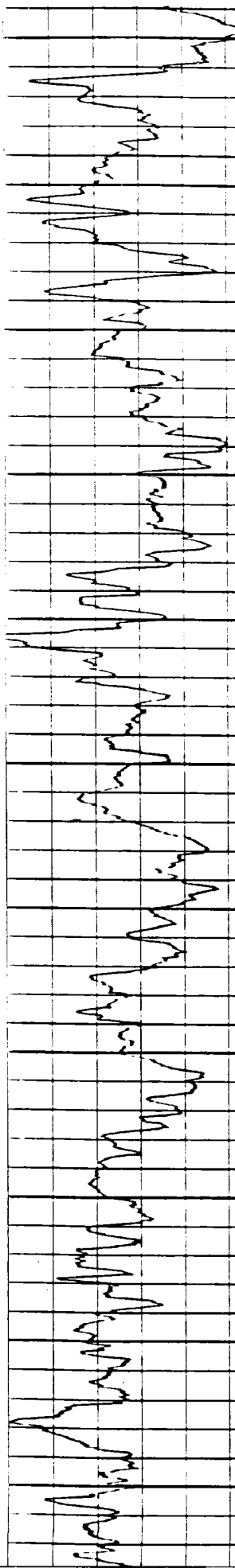
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INDIAN

B

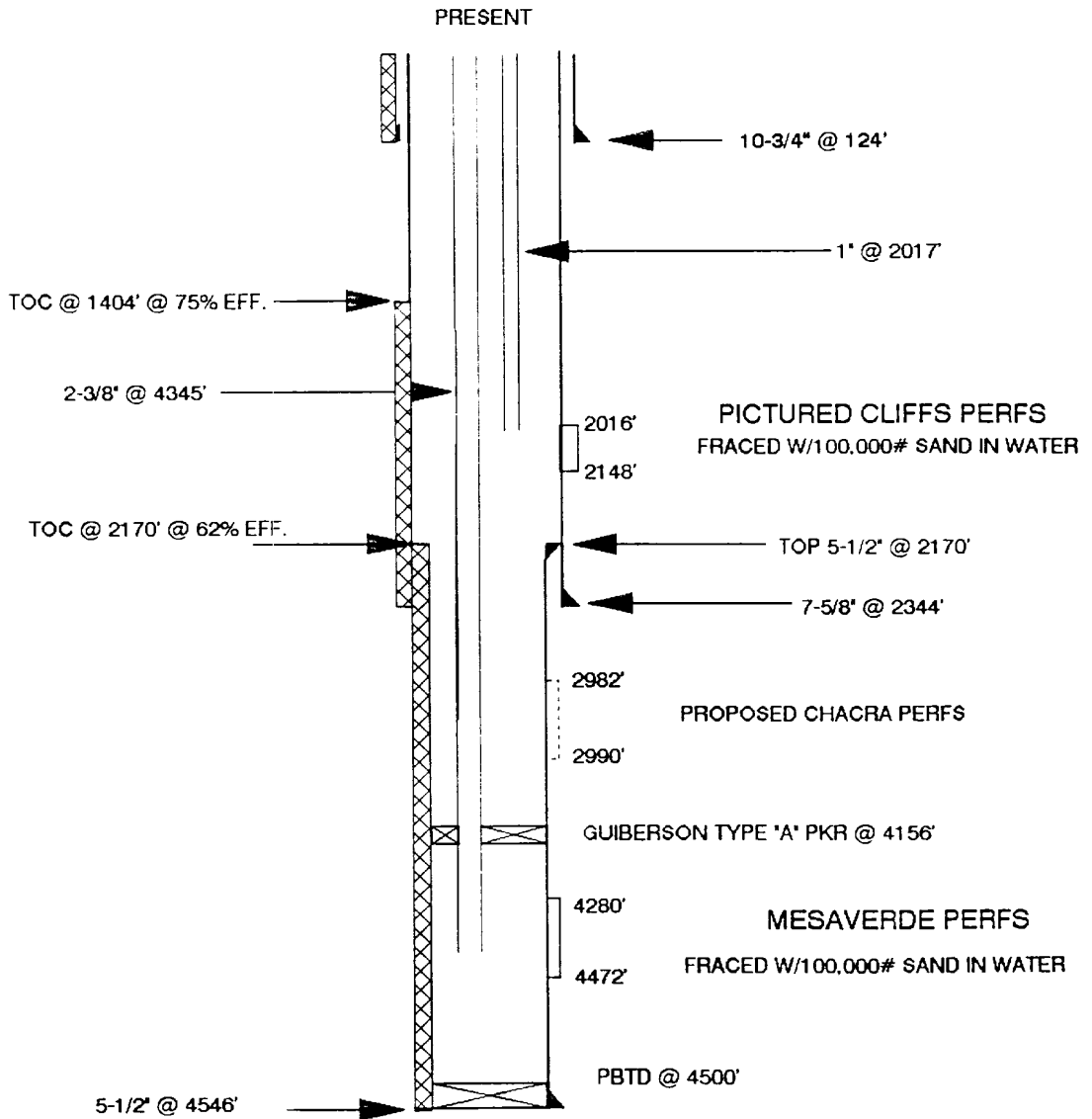
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NAVAJO INDIAN B #3 MV

UNIT N SECTION 19 T27N R8W
SAN JUAN COUNTY, NEW MEXICO



NAHHTO B #6

19 27 8

INDUCTION LOG

2700

2800

2900

3000

3100

3200

