



Well Name: SJ 28-7 54; BHD
 API #: 30-039-07347
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20250102
 Cust No: 35825-16475

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SJ 28-7 54; BHD
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: NMSF - 0794 7A
 Formation: MV
 Cust. Stn. No.: 30-039-07347

Source: BRADENHEAD
 Well Flowing:
 Pressure: 25 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 60 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/27/2025
 Sample Time: 8.31 AM
 Sampled By: ALEC WALDREN
 Sampled by (CO): HILCORP

AREA 10 / RUN 1007

Heat Trace:
 Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4396	0.4376	0.0480	0.00	0.0043
CO2	0.7188	0.7155	0.1230	0.00	0.0109
Methane	87.8075	87.4002	14.9270	886.86	0.4864
Ethane	6.1313	6.1029	1.6440	108.51	0.0637
Propane	2.5586	2.5467	0.7070	64.38	0.0390
Iso-Butane	0.2720	0.2707	0.0890	8.85	0.0055
N-Butane	0.5620	0.5594	0.1780	18.33	0.0113
I-Pentane	0.1397	0.1391	0.0510	5.59	0.0035
N-Pentane	0.1280	0.1274	0.0470	5.13	0.0032
Hexane Plus	1.2425	1.2367	0.5560	65.49	0.0411
Total	100.0000	99.5362	18.3700	1163.13	0.6687

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.003	CYLINDER #:	2034
BTU/CU.FT IDEAL:	1165.8	CYLINDER PRESSURE:	25 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1169.3	ANALYSIS DATE:	09/04/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1149.0	ANALYSIS TIME:	12:58:34 PM
DRY BTU @ 15.025:	1192.7	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6704		

GPM, BTU, and SPG calculations as shown above are based on current GPA constants.

GPA Standard: GPA-2261

GC: Danalyzer Model 500 Last Cal/Verify: 09/18/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SJ 28-7 54; BHD	BRADENHEAD	09/18/2025
Stn. No.:	30-039-07347	MV	35825-16475
Mtr. No.:			

Smpl Date:	08/27/2025
Test Date:	09/04/2025
Run No:	HS20250102
Nitrogen:	0.4396
CO2:	0.7188
Methane:	87.8075
Ethane:	6.1313
Propane:	2.5586
I-Butane:	0.2720
N-Butane:	0.5620
I-Pentane:	0.1397
N-Pentane:	0.1280
Hexane+:	1.2425
BTU:	1169.3
GPM:	18.3700
SPG:	0.6704



Well Name: SJ 28-7 54; TBG
 API #: 30-039-07347
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS20250101
 Cust No: 35825-16470

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SJ 28-7 54; TBG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: NMSF-0794 7A
 Formation: MV
 Cust. Stn. No.: 30-039-07347

Source: TUBING
 Well Flowing:
 Pressure: 67 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 60 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/27/2025
 Sample Time: 8.31 AM
 Sampled By: ALEC WALDEN
 Sampled by (CO): HILCORP

AREA 10 / RUN 1007

Heat Trace:
 Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4858	0.4876	0.0540	0.00	0.0047
CO2	0.9818	0.9854	0.1680	0.00	0.0149
Methane	79.6854	79.9800	13.5560	804.82	0.4414
Ethane	10.0711	10.1083	2.7030	178.23	0.1046
Propane	4.9486	4.9669	1.3680	124.51	0.0753
Iso-Butane	0.8004	0.8034	0.2630	26.03	0.0161
N-Butane	1.4262	1.4315	0.4510	46.53	0.0286
I-Pentane	0.4545	0.4562	0.1670	18.18	0.0113
N-Pentane	0.3609	0.3622	0.1310	14.47	0.0090
Hexane Plus	0.7853	0.7882	0.3510	41.39	0.0260
Total	100.0000	100.3697	19.2120	1254.16	0.7319

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
 BTU/CU.FT IDEAL: 1257.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1261.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1239.7
 DRY BTU @ 15.025: 1287.0
 REAL SPECIFIC GRAVITY: 0.7343

CYLINDER #: 1907
 CYLINDER PRESSURE: 63 PSIG
 ANALYSIS DATE: 09/04/2025
 ANALYSIS TIME: 01:05:27 PM
 ANALYSIS RUN BY: ALEXIS MITCHELL

GPM, BTU, and SPG calculations as shown above are based on current GPA constants.

GPA Standard: GPA-2261

GC: Danalyzer Model 500 Last Cal/Verify: 09/12/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SJ 28-7 54; TBG	TUBING	09/12/2025
Stn. No.:	30-039-07347	MV	35825-16470
Mtr. No.:			

Smpl Date:	08/27/2025
Test Date:	09/04/2025
Run No:	HS20250101
Nitrogen:	0.4858
CO2:	0.9818
Methane:	79.6854
Ethane:	10.0711
Propane:	4.9486
I-Butane:	0.8004
N-Butane:	1.4262
I-Pentane:	0.4545
N-Pentane:	0.3609
Hexane+:	0.7853
BTU:	1261.7
GPM:	19.2120
SPG:	0.7343



Well Name: SJ 28-7 54; CSG
 API #: 30-039-07347
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20250100
 Cust No: 35825-16465

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SJ 28-7 54; CSG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: NMSF-0794 7A
 Formation: MV
 Cust. Stn. No.: 30-039-07347

Source: CASING
 Well Flowing:
 Pressure: 68 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 60 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/27/2025
 Sample Time: 8.28 AM
 Sampled By: ALEC WALDEN
 Sampled by (CO): HILCORP

AREA 10 / RUN 1007

Heat Trace:
 Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3740	0.3762	0.0410	0.00	0.0036
CO2	0.9744	0.9801	0.1670	0.00	0.0148
Methane	79.9495	80.4192	13.5990	807.49	0.4428
Ethane	11.2234	11.2893	3.0120	198.62	0.1165
Propane	5.5922	5.6251	1.5460	140.71	0.0851
Iso-Butane	0.2196	0.2209	0.0720	7.14	0.0044
N-Butane	0.0612	0.0616	0.0190	2.00	0.0012
I-Pentane	0.0266	0.0268	0.0100	1.06	0.0007
N-Pentane	0.0207	0.0208	0.0080	0.83	0.0005
Hexane Plus	1.5584	1.5676	0.6970	82.14	0.0516
Total	100.0000	100.5876	19.1710	1239.99	0.7213

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0036	CYLINDER #:	1809
BTU/CU.FT IDEAL:	1242.9	CYLINDER PRESSURE:	68 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1247.4	ANALYSIS DATE:	09/04/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1225.7	ANALYSIS TIME:	12:49:44 AM
DRY BTU @ 15.025:	1272.4	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.7236		

GPM, BTU, and SPG calculations as shown above are based on current GPA constants.

GPA Standard: GPA-2261

GC: Danalyzer Model 500 Last Cal/Verify: 09/12/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SJ 28-7 54; CSG	CASING	09/12/2025
Stn. No.:	30-039-07347	MV	35825-16465
Mtr. No.:			

Smpl Date:	08/27/2025
Test Date:	09/04/2025
Run No:	HS20250100
Nitrogen:	0.3740
CO2:	0.9744
Methane:	79.9495
Ethane:	11.2234
Propane:	5.5922
I-Butane:	0.2196
N-Butane:	0.0612
I-Pentane:	0.0266
N-Pentane:	0.0207
Hexane+:	1.5584
BTU:	1247.4
GPM:	19.1710
SPG:	0.7236



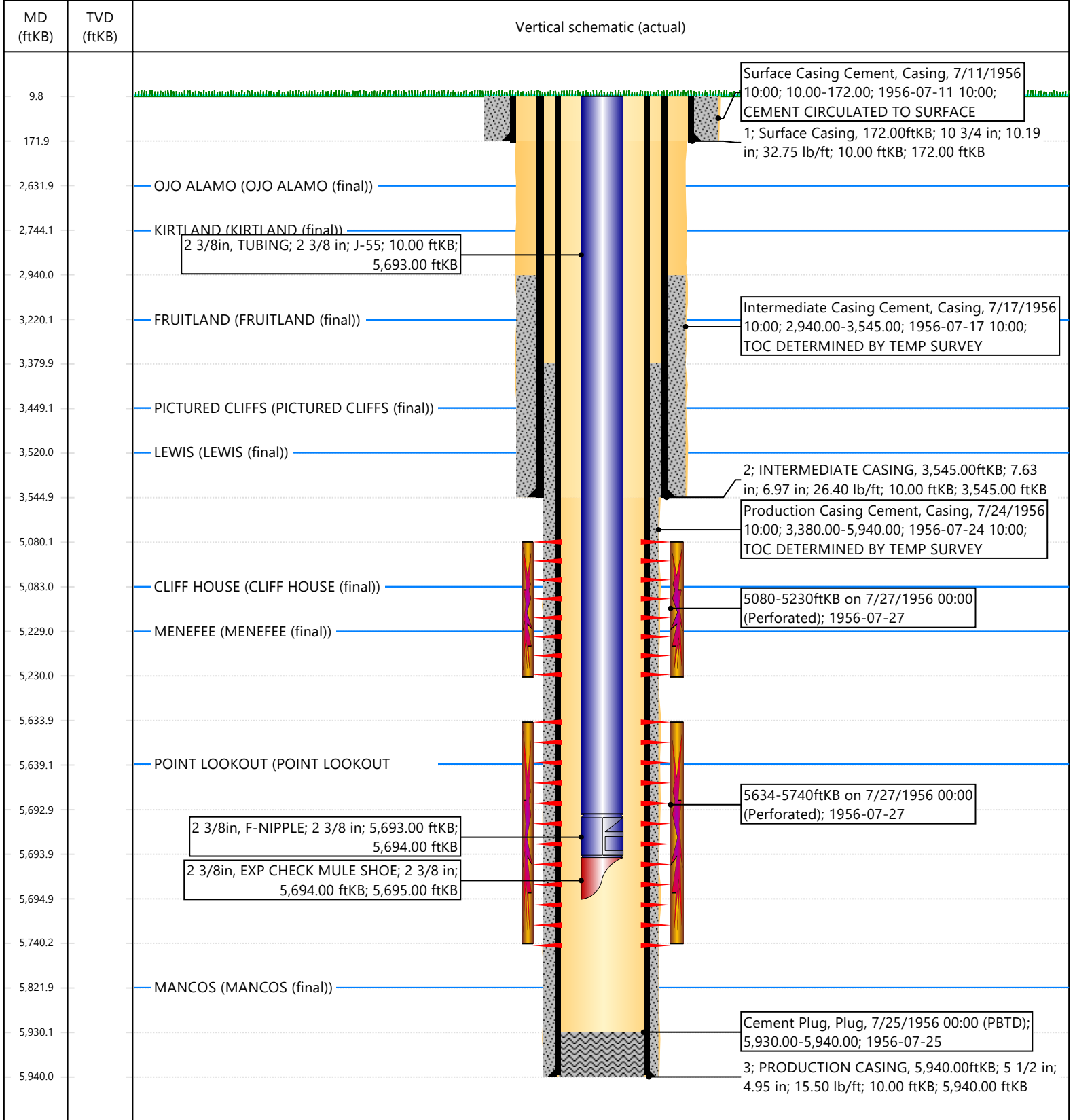
Current Schematic - Version 3

Well Name: SAN JUAN 28-7 UNIT 054

API / UWI 3003907347	Surface Legal Location 022-028N-007W-N	Field Name MV	Route 1007	State/Province NEW MEXICO	Well Configuration Type Vertical
Ground Elevation (ft) 6,783.00	Original KB/RT Elevation (ft) 6,793.00	Tubing Hanger Elevation (ft) 6,783.00	RKB to GL (ft) 10.00	KB-Casing Flange Distance (ft) 10.00	KB-Tubing Hanger Distance (ft) 10.00

Tubing Strings					
Run Date 5/11/2005 15:00	Set Depth (ftKB) 5,695.00	String Max Nominal OD (in) 2 3/8	String Min Nominal ID (in)	Weight/Length (lb/ft)	Original Spud Date 7/10/1956 00:00

Original Hole, SAN JUAN 28-7 UNIT 054 [Vertical]



Sante Fe Main Office
Phone: (505) 476-3441

General Information
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Online Phone Directory
<https://www.emnrd.nm.gov/oecd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 507431

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 507431
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	Accepted for record	4/9/2026